SOFTBANK
ZIFF-DAVIS

OCTOBER 1997

PC Computing

WWW.PCCOMPUTING.COM

Our Best-Selling Issue!

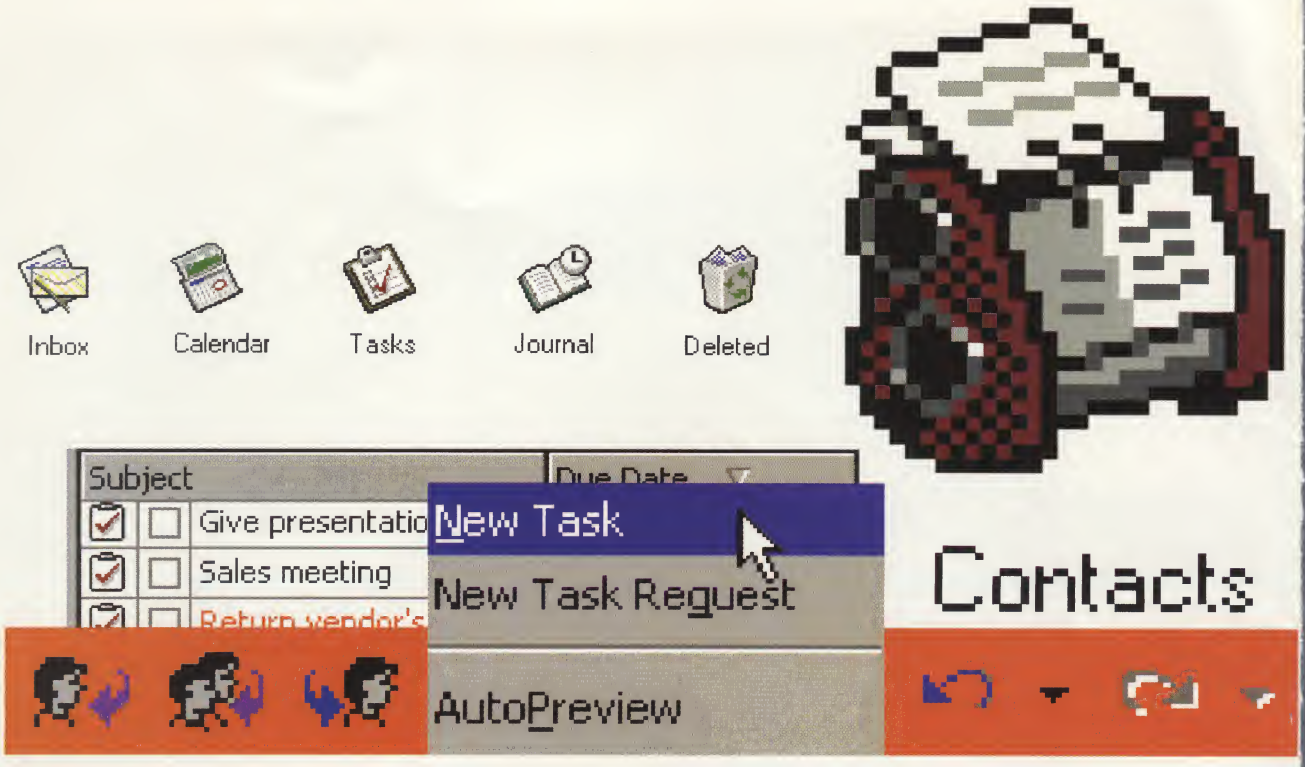
Windows Superguide

6th ANNUAL

Insider's Secrets!

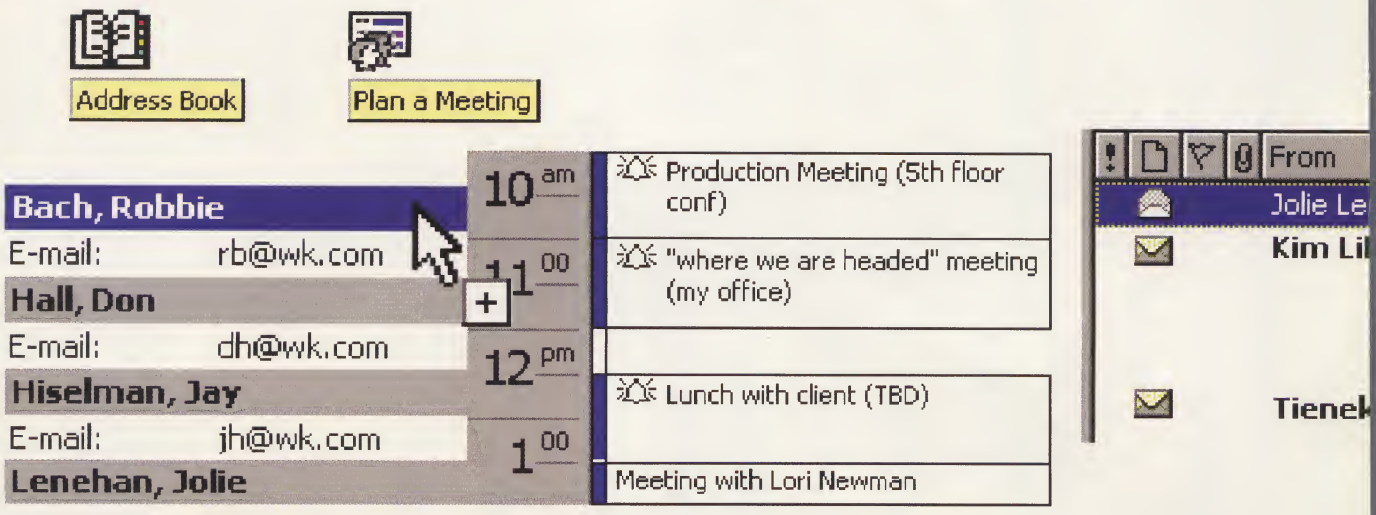
Undocumented Tips!

Tons of Free



it's going to be rea to stay disorganized.

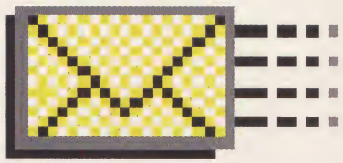
©1997 Microsoft Corporation. All rights reserved.
Microsoft and Where do you want to go today? are registered trademarks and Outlook is a trademark of Microsoft Corporation.



lly, really hard

Some people are inclined to neatly arrange, file, cross-reference and deploy strategic bits of information, like what's-his-name, the guy who sent you the e-mail about the thing on Tuesday... or Wednesday. Well, here's good news for the highly with-it and the chronically disorganized alike: the new Microsoft® Outlook™ 97 desktop information manager. It's part of new Microsoft Office 97, and it's here to help you get organized (or, as the case may be, way more organized). Outlook puts your e-mail, electronic scheduling, "to-do" lists and contacts in one cozy interface. It helps you do smart things, like preview the first three lines of your e-mails to quickly separate news from junk. And you can easily share, link and move information; for instance, drag an e-mail onto the contacts icon and a new contact file is automatically created for you. Now, that's functionality. Want to know more? Block out a little time to visit our Web site.

Where do you want to go today?® www.microsoft.com/office/ Microsoft®



Microsoft Office 97/now/

Subject	Received
FW: Home Essentials	Fri 3/7/97

RE: Hey there!

Hey guys: I realize you're all looking forward to doing a major presentation at 8:00 A.M., but as it happens, the meeting time has been pushed back to 3:00. So sleep in an extra 17



It slices. It dices. Makes gorgeous

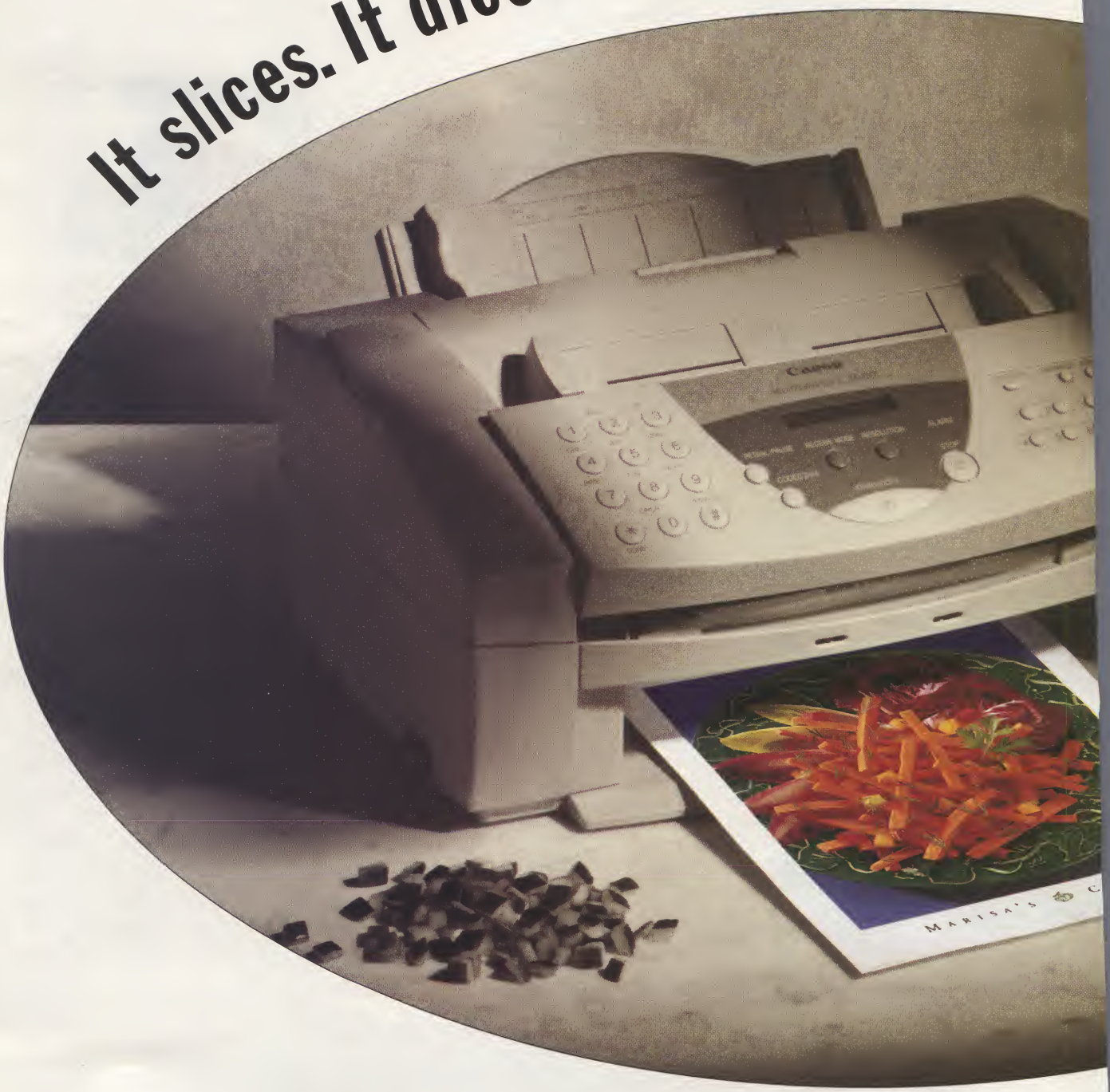


Photo Realism™

julienne carrots.



Meet photo-realistic color printing so real, you can taste it. Add in faxing, copying and scanning, all packed into one simple-to-use, space-age device, and you've got Canon's MultiPASS™ C3000.

PRINT

Photo-realistic color printing.

For only $499.* With its optional Photo Kit, this is the only true photo-quality product of its kind. You get free TextBridge® Classic OCR and Canon Creative software,** your key to amazing results, featuring WebRecord™ Internet printing. Operators are standing by.

FAX

Plain paper faxing.

COPY

Crisp, convenient copying.

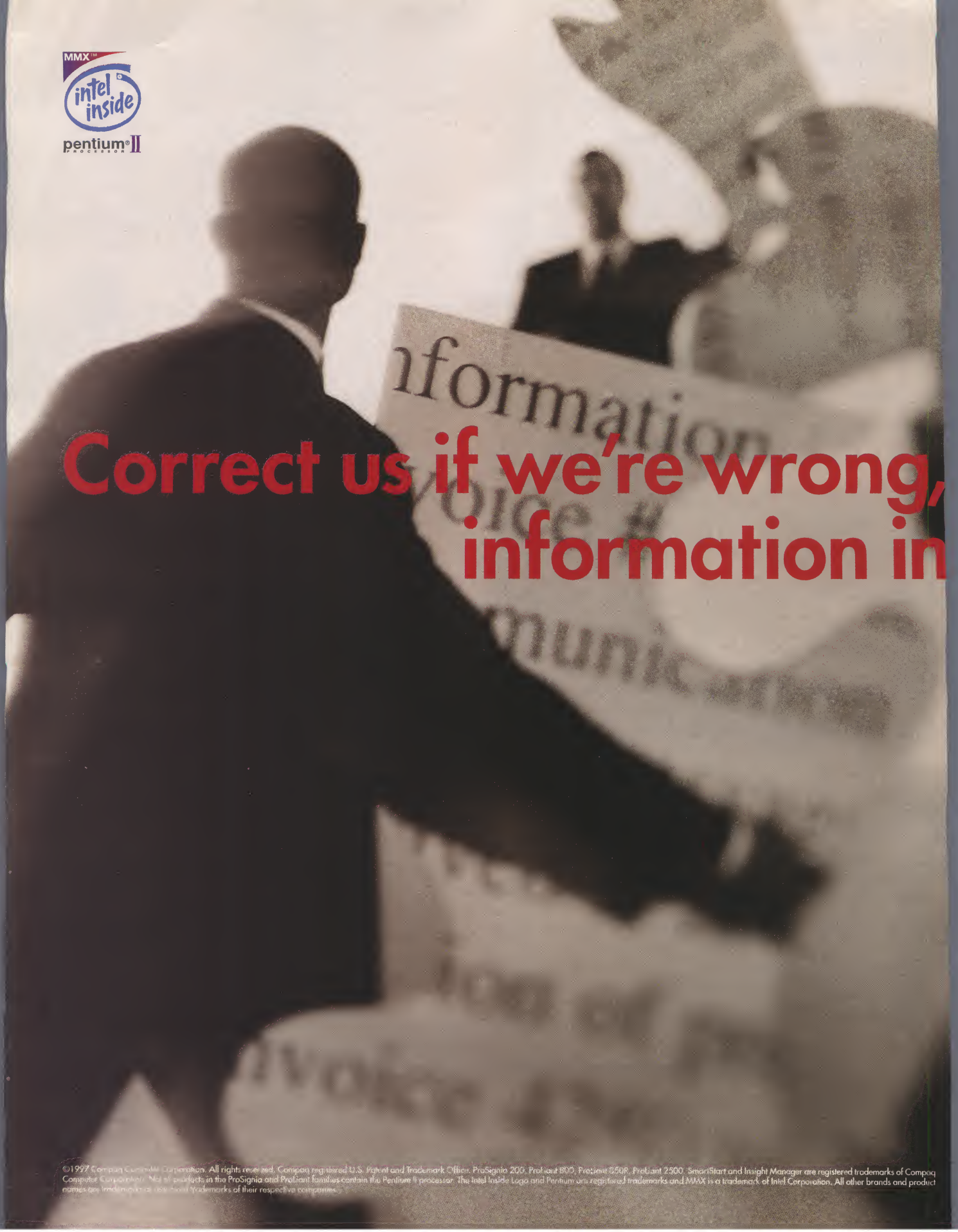
SCAN

400 dpi grayscale scanning.

So call us at 1-800-848-4123 or visit *www.ccsi.canon.com. Because* now all your printing will be absolutely delicious. **See what we mean.™**

Canon

*Manufacturer's suggested retail price. Dealer prices may vary. **All software available on CD-ROM only and designed for use only with Windows® '95. © 1997 Canon Computer Systems, Inc. Canon is a registered trademark and MultiPASS, WebRecord, PhotoRealism and "See What We Mean" are trademarks of Canon Inc. In Canada, call 1-800-263-1121.



©1997 Compaq Computer Corporation. All rights reserved. Compaq registered U.S. Patent and Trademark Office. ProSignia 200, ProLiant 800, Prosignia 350R, ProLiant 2500, SmartStart and Insight Manager are registered trademarks of Compaq Computer Corporation. Not all products in the ProSignia and ProLiant families contain the Pentium II processor. The Intel Inside Logo and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. All other brands and product names are trademarks or registered trademarks of their respective companies.



Presenting workgroup servers from Compaq. Put simply, the goal is to minimize cost and risk for your business. To that end, we're offering a full line of workgroup servers to meet a range of functionality and budget needs. The ProSignia 200 is an entry-level server at the price of a desktop. The ProLiant 800 provides excellent price:performance and expandable features. The ProLiant 850R is a new one we're excited about. It's the industry's first rack-ready, high-density workgroup server that won't cause hemorrhaging in the accounting department. And

but we presume all of the your company is critical.

the scalable, high-performance ProLiant 2500 is quite possibly the most flexible server you can buy. No one in your company need compute like a second-class citizen again.

No matter which of our servers you choose, you'll receive a full suite of management software from Compaq like SmartStart and Insight Manager to easily deploy and manage your server.

Optimizing your workgroup's overall performance is also done simply with Compaq's range of memory and hardware options like manageable UPS products, a full range of tape backup and proven RAID technology that integrates seamlessly into existing networks.

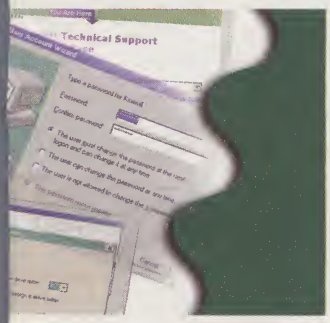
Workgroup servers and options from Compaq. One place where trickle-down economics actually works. For more information, visit us at www.compaq.com/product/servers.

COMPAQ

PC Computing
WWW.PCCOMPUTING.COM

6th Annual

Windows Superguide



Tired of Windows treating you with no respect? Show it who's boss with our best-selling 6th Annual Windows Superguide! It's the most complete collection of the top insiders' tricks, speedup secrets, quick fixes, and undocumented tips for Windows 95 and NT 4.0—and it's guaranteed to make you more productive. **202**

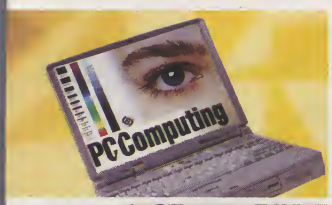
Maximum Performance **204**
Little-known ways to speed up Windows 95 and NT 4.0 and make your system crashproof—instantly!

Windows and the Web **210**
Turbocharge your Web setup, make Outlook behave. Plus Internet tricks you gotta try.

Win 98 and NT 5.0—Now! **216**
Why wait for Microsoft to upgrade its operating system? Keep Windows up-to-date with Win 98 and NT 5.0 now.

Networking and Security **226**
Is your system safe? Are you sure? Security and networking secrets of the pros.

Hassle-Free Hardware **238**
Make NT work on a notebook, tame Plug and Play—and other hardware setup and survival tricks.



Special Report
Your Next Notebook

Why settle? Ultralight, ultrafast, and ultra-affordable notebooks let you take it all with you. Read our special report before you buy. **256**



Calling Cards

Zoom! Superfast modems, speedy ISDN adapters, and blazing-fast network cards connect your notebook to the Net or office at warp speeds. Don't miss this one-stop guide to the best PC Card add-ins you can buy. **285**



Put Your Net on the Net

Click, click, done! New all-in-one Web boxes have everything you need to connect your entire office to the Internet in three easy steps. It's simpler than you think. The best part? They're affordable too! **297**

A-List

EDITORS' TOP PICKS IN 100 PRODUCT CATEGORIES



Best Hardware
Stand back! The first systems based on Intel's LX chip set are here. What's in it for you? Faster 3-D—especially for games. Plus the top printers, monitors, and peripherals. **57**



Best Software
Microsoft's application suite outsells the competition, but it's not your only option. Also inside: the best virus killer, 3-D games, and new finance managers. **66**

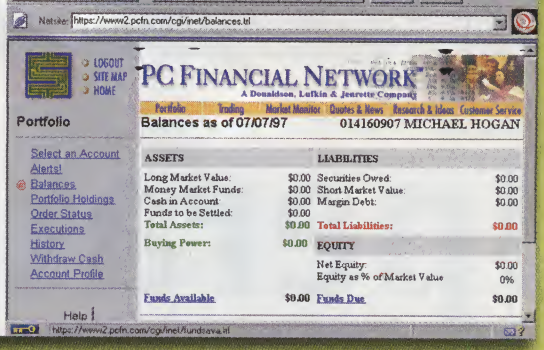


Best Internet
Bookmark this: the top Web search engine, the best Internet service provider, and everything you need to publish and set up shop on the Web. **74**

October 1997 Volume 10 Number 10

New!

Easy Money Another reason to boot your broker: Get richer, quicker with these top Web-based stock and portfolio managers. **98**



The Source

New Win 95 and NT apps for the office and home. **307**

311 Parsons Technology Quicken Family Lawyer 8.0 Deluxe

311 3M Post-it Software Notes

318 Astound WebCast

318 LucasArts Entertainment Outlaws

324 Canon Computer Systems WebRecord

330 Traveling Software LapLink for Windows NT

330 Adobe Type Manager Deluxe 4.0

Hardware

101 IBM ThinkPad 770

102 Dell Dimension XPS D266 vs. Gateway 2000 G6-300XL

106 Imation SuperDisk Drive

108 Toshiba PDR-2 vs. Mitsubishi DJ-1000

110 Gateway 2000 G6-266M vs. Unicent Titana II 266XLP-DVD

112 Visioneer PaperPort Strobe

117 Sampo AlphaScan 810 vs. Hitachi/NSA SuperScan Elite 751

118 Canon BJC-7000

120 Diamond Monster Sound

120 Hitachi MP-EG1A

125 Matrox Rainbow Runner Studio

125 Cornerstone Color 45/101sf

126 Polycom SoundPoint PC

126 Mitsubishi MobileAccess 120

Software

129 Intuit BankNow Internet Edition vs. Security First Network Bank

130 MetaCreations Painter 5

132 Seiko SmartLobby

134 Atrieva 1.0, Hot Wire BackupNet 1.5, McAfee QuickBackup 2.05

136 Advantageware VB Advantage 1.0 vs. Sheridan VBAssist 5.0

138 MetaCreations Kai's Photo Soap

138 IBM AntiVirus 2.5.2

140 Adaptec Easy CD Creator Deluxe

140 Ephyx V-Active 1.0

Internet

149 Microsoft Internet Explorer 4.0 Managed Webcasting vs. Netscape Netcaster

152 Artisoft i.Share 2.0 vs. Microtest WebEtc 1.0

154 Caere OmniForm Internet Publisher vs. Cardiff TeleForm Internet Solution

156 Intershop Online 2.0 vs. Outreach Internet MallManager 3.0

160 Integrated Technology CompuNet 2000 vs. InterAct WorldTalk Internet Phone

162 Microsoft Site Server 2.0

164 Parable ThingMaker

168 Microsoft Application Foundation Classes vs. ObjectShare Parts for Java

170 VitalSigns Net.Medic

170 Transparent Language Easy Translator

172 NetJumper 2.5

172 PGP for Personal Privacy

176 Tumbleweed Posta

176 Opposite HTML PowerTools 1.6

177 SPC ActivePresenter

178 DataViz WebBuddy 1.1

179 Excite Personal Access List

180 CommTouch Pronto97

36 www.pccomputing.com

335 Direct to You

353 Marketplace

380 Ad Index

383 Edit Index

48 **Pulse**

190 **CD-Ron**

Soho

Instant Photo Prints Turn digital images on your hard drive into picture-perfect photo prints. We test the top photo printers for under $500. Plus, screen your SOHO calls and beam your PC image to your TV screen. **372**

Opinion

41 **Mail**

89 **Paul Somerson** Believe it.

91 **Taylor & Jerome** They're watching.

93 **John C. Dvorak** The raw truth.

Inter.net

Secret High-Speed Internet The next Net is here and it's 100 to 1,000 times faster than the Internet today. Here's where to find it—and how to get on. **385**

385 **Free Software** This month's update to our library of the 1,001 best free downloads.

388 **Cool Tools** Reviews of killer plug-ins, search tools, and Web products.

392 **Net Kahuna** Making your way in the world . . . or the subway . . . or the human body.

398 **HotList** Summer of Love.



We Want One An exclusive look at IBM's astonishing ThinkPad 770—14.1-inch screen, DVD, and digital surround sound included. **101**

Operators are not standing by.

System Consultants are.

When you call NEC NOW,℠ you don't just get a pleasant voice. You get linked directly to knowledgeable, inventive System Consultants. Ideal business partners who work closely with you, developing unique solutions to your unique problems.



Introducing NEC NOW. An entirely new approach to buying computers.

And they have a lot of solutions at their disposal. After all, they're backed by an established, worldwide brand with the innovation, service, quality and dependability only a major player can offer. We even give you the option of buying through a highly qualified NEC reseller partner. Now isn't this the way direct sales should operate?

BUILT TO ORDER

Why NEC NOW?

- The security of partnering with a company known for its technological innovations.
- The flexibility of ordering direct or through a reseller.
- The expertise of System Consultants.
- The immediate availability of competitively priced products.
- The resources of one of the world's largest computer companies.

NEC NOW.

MMX™ intel inside pentium® PROCESSOR

©1997 NEC Computer Systems Division, Packard Bell NEC, Inc. NEC, Versa, and MultiSync are registered trademarks; VersaBay, A700, C700, C500, ESM, PortBar, MiniDock and Express5800 are trademarks, and UltraCare is a service mark of NEC Corporation, all used under license by Packard Bell NEC, Inc. Direction, VersaNote, VersaExec, and MagicEye are trademarks and NEC NOW is a service mark of Packard Bell NEC, Inc. Leasing based on typical 36-month lease with purchase option. Other lease options may be available, leasing arranged by third party leasing company to qualified customers. Prices do not include shipping or applicable sales tax, are valid in the US only and are subject to change without notice. Products and specifications are subject to change without notice. *Product is 56Kbps capable. However, due to FCC rules which restrict power output of the service providers' modems, current download speeds are limited to *approximately* 53Kbps. Actual speed may vary depending on line conditions. MS, IntelliMouse, Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation. NetWare and Novell are registered trademarks of Novell, Inc. The Intel Inside logo, LANDesk and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. All other trademarks and registered trademarks are property of their respective owners.



NEC Versa® 6060 Series *High performance desktop replacements.*

Common Features: PCI Bus with 128-bit Graphics Accelerator • 32-bit CardBus Support • 2MB VRAM • Integrated 16-bit Stereo Sound • USB Port • VersaBay™ II Option Slot Accepts CD-ROM, Floppy Drive (both included) Optional 2nd Hard Drive and 2nd Battery • Lithium Ion Battery • DMI 2.0 Compliant • Intel® LANDesk® Manager 3.0 • Upgradeable 3-Year Limited Warranty

Versa 6060

- 166MHz Pentium® processor with MMX™ technology
- 12.1" SVGA Active Matrix TFT Color Display
- 48MB EDO DRAM (80MB max)
- 2.1GB Hard Drive/20X max CD-ROM
- U.S. Robotics® x2™ XJACK® 56Kbps* Fax Modem
- Microsoft® Windows NT® 4.0 with Free Telephone Support

* Optional Versa Docking Station 6000 Plus, add $899
* Optional 2nd Lithium Ion Battery, add $199
* Upgrade to a 3.2GB Hard Drive, add $299

$4099
Business Lease: $143/mo.

Versa 6060

- 166MHz Pentium processor with MMX technology
- 12.1" SVGA Active Matrix TFT Color Display
- 16MB EDO DRAM (80MB max)
- 2.1GB Hard Drive/20X max CD-ROM
- MS® Windows® 95

* Optional U.S. Robotics x2 XJACK 56Kbps* Fax Modem, add $199
* Upgrade to 32MB RAM, add $159
* Optional VersaPro™ Ballistic Nylon Carrying Case, add $99
* Optional Versa MiniDock™ 6000, add $499

$3499
Business Lease: $126/mo.

NEC Direction™ PCs *A new direction in cutting edge technology.*

Common Features: Mini-Tower or Desktop Tool-Less Chassis • 24X max CD-ROM • 3.5" Floppy Drive • Microsoft Windows 95 • MS Office 97 SBE • 2 USB Ports • Microphone • Palmrest Keyboard and MS IntelliMouse® • 3-Year Limited Warranty with 1-Year On-Site Service • *DirecPC Satellite Dishes are Now Available as Upgrades on all Direction Systems*

Direction SPL300

- 300MHz Pentium II processor with MMX technology/ 512KB Integrated L2 Cache
- ATX Motherboard with 440LX Chip Set
- 7.0GB Ultra DMA Hard Drive/64MB SDRAM
- 4MB SGRAM AGP Graphics Card
- Altec® ACS-90 Speakers/Wavetable Audio
- NEC C700™ 17" Monitor (16" v.i.s.)

* Upgrade to Number Nine AGP Revolution 3D, 4MB WRAM, add $219
* Optional U.S. Robotics 56Kbps* Data/Fax/Voice Modem, add $119

$2949
Business Lease: $106/mo.

Direction SPT200

- 200MHz Pentium processor with MMX technology/ 512KB L2 Pipeline Burst Cache
- 3.2GB Ultra DMA Hard Drive/32MB SDRAM
- 4MB SGRAM PCI Graphics Card
- U.S. Robotics 56Kbps* Data/Fax/Voice Modem
- Altec ACS-90 Speakers/Integrated Yamaha Sound
- NEC C550 15" Monitor (14" v.i.s.)

* Upgrade to NEC C700 17" Monitor (16" v.i.s.) add $199
* Upgrade to Iomega® Zip Drive, add $99

$1789
Business Lease: $64/mo.

NEC Express5800™ Series Servers *Servers that grow with your business.*

Common Features: Integrated PCI Wide Ultra SCSI Disk Controller • Integrated PCI SCSI Controller for Media Bays • Integrated SVGA Controller • 1MB VRAM (upgradeable to 2MB) • 12X CD-ROM • 3.5" Floppy Drive • Mouse and Keyboard • NEC ESM™ Pro Server Management Software • MS Windows NT Server 4.0 and NetWare® 4.11 Certified • 3-Year On-Site Service Warranty

Express5800 LE2200

- Dual Capable Pentium II System w/one 266MHz Pentium II processor/512KB Integrated L2 Cache
- 64MB ECC DIMM Memory (512MB Maximum)
- One 4.3GB Ultra Wide SCSI Disk
- 8 Expansion Slots, 4 PCI, 3 ISA, 1 Shared
- 7 Drive Bays, 3 External 5.25", 4 Internal 3.5"

* Optional Second 266MHz/512KB Pentium II processor, add $1099
* Additional 64MB of ECC Memory, add $449
* Optional PCI Ultra Wide SCSI RAID Controller, add $1349
* 2/4/9GB Ultra Wide SCSI Disk Drives for up to 36GB of Storage Space, add $529/$849/$1299
* Optional MS Windows NT Server 4.0, add $799

$3959
Business Lease: $139/mo.

Express5800 LE2000

- Dual Capable Pentium Pro System w/one 200MHz Pentium Pro processor/256KB Integrated L2 Cache
- 32MB ECC DIMM Memory (1GB Maximum)
- One 2.1GB Ultra Wide SCSI Disk
- 8 Expansion Slots, 4 PCI, 3 ISA, 1 Shared
- 7 Drive Bays, 3 External 5.25", 4 Internal 3.5"

* Optional Second 200MHz/256KB Pentium Pro processor, add $799
* Additional 32MB of ECC Memory, add $189
* Optional PCI Ultra Wide SCSI RAID Controller, add $1349
* 2/4/9GB Ultra Wide SCSI Disk Drives for up to 36GB of Storage Space, add $529/$849/$1299
* Optional MS Windows NT Server 4.0, add $799

$2699
Business Lease: $97/mo.

To order, get a free catalog or find your nearest reseller call:
Mon-Fri 8am-8pm EST

1-888-8-NEC-NOW
Dept. No. PC580A
www.necnow.com
Circle 221 on reader service card.

NEC



MultiSync is a registered trademark and A500, A700, E500, E700, E1100, ChromaClear and "Expect more. Experience more." mark and icon are trademarks of NEC Technologies, Inc. All other trademarks or registered trademarks are the property of their respective holders. ©1997 NEC Technologies, Inc.







2 A TEACHER DISCOVERED *that Christian would respond to images from his life. She put visual cues to the story of his new puppy on a special keyboard.*



NEC MultiSync Monitors
E and A Series

THE MONITORS THAT ARE BEST FOR CHRISTIAN'S NEEDS *can also speak to yours. Introducing the NEC MultiSync® Enterprise and Advanced Series, the monitors for people looking for superior, lifelike images. And the monitors for people who want the kind of flexibility that super high resolutions and refresh rates ensure.*

OSM™ (On-Screen Manager) controls make image adjustments easy. Plus, select Enterprise monitors feature CROMACLEAR™ CRT, for unparalleled focus, contrast and intense color saturation. And, of course, the industry-leading NEC warranty includes 3 years parts, labor and CRT.

For more information on the new performance-driven MultiSync Enterprise and value-oriented Advanced Series call 1-800-NEC-INFO or visit www.nec.com.

3 THE MONITOR BECAME HIS VOICE. *With it he makes class reports and conversation. With it, Christian, 11, has been in the regular Osterville, MA public school since first grade.*



Until he found this window.



4 WITH THE PICTURES, HE MADE SENTENCES. *With the sentences, he made friends. Christian's monitor is the window between his non-verbal world and the speaking world of his friends. Through it, he teaches them many things.*



MULTISYNC® MONITORS

	Max Res	Bandwidth	CRT Type	Pitch
A500	1280 x 1024 @ 60Hz	112MHz	Dot Trio	0.28mm dot
A700	1280 x 1024 @ 65Hz	119MHz	Dot Trio	0.28mm dot
E500	1280 x 1024 @ 65Hz	119MHz	CROMACLEAR	0.25mm mask
E700	1600 x 1200 @ 65Hz	177MHz	CROMACLEAR	0.25mm mask
E1100	1600 x 1200 @ 65Hz	177MHz	Dot Trio	0.28mm dot

Expect more. Experience more.

NEC



Circle 236 on reader service card.

REPRINTS REPRINTS

A Great Review Is Worth Repeating

No marketing tool has more impact than a great product review in PC Computing. Buyers know they can base buying decisions on PC Computing reviews because our labs, writers and editors can be trusted to be thorough, fair and impartial in their testing and reporting. Get the most value out of your review with reprints. Hand them out at a trade show. Send them to your mailing list. Provide them to distributors. Add them to a press release or a mailing to your stockholders. Ziff-Davis reprints make it simple and affordable. And if you customize your reprint the value will increase even more. Call Ziff-Davis Reprints at 800-825-4237.

PC Computing

PC Computing

VICE PRESIDENT, EDITOR-IN-CHIEF Paul Somerson

EDITOR Wendy Taylor

MANAGING EDITOR Debra McDonald **ART DIRECTOR** Michael Yapp

EDITORIAL

FEATURES EDITOR Christine Grech Wendin

REVIEWS EDITOR Jack Lyon

SENIOR EDITORS Kyla K. Carlson, Gregor Gilliom, Liesl La Grange Noble, Rich Schwerin, Ron White (CD-Ron)

ASSOCIATE EDITOR Julie Polito

ASSISTANT EDITORS Leslie Ayers, Laura Lindhe

COPY CHIEF Jacqueline Kan

ASSISTANT MANAGING EDITOR Peggy Gannon

COPY EDITORS John C. Downen, Tara A. McGoldrick, Jennifer C. Worrell

RESEARCH EDITOR Elizabeth Cardinal

DESKTOP PRODUCTION MANAGER Jackie Cuneo

EXECUTIVE ASSISTANT TO THE VP, EDITOR-IN-CHIEF Kristiana Jones

ADMINISTRATIVE ASSISTANT Beth Wilson

CONTRIBUTING EDITORS

SENIOR CONTRIBUTING EDITOR Ed Bott

CONTRIBUTING EDITORS Vincent Chen, John C. Dvorak, Charles Fleischer, Marty Jerome, Woody Leonhard, Neil Randall

LABS AND TECHNICAL

LAB MANAGER John Ryan

ASSOCIATE USABILITY LAB MANAGER Lulit Bezuayehu

SENIOR PROJECT LEADER Ibrahim Gul

INVENTORY COORDINATOR Juli Davis

TECHNICAL SPECIALIST Hal Haberman

LAB ASSISTANT André Leach

PC COMPUTING ONLINE

EDITOR, ONLINE Stephen Howard

SENIOR EDITOR, ONLINE Matthew Johan

MULTIMEDIA DEVELOPER Curtis Jeung

ASSOCIATE EDITOR, ONLINE Courtney Attwood

ASSISTANT EDITORS, ONLINE Dan Gilbert, Sean P. Martin

ART AND DESIGN

ASSOCIATE ART DIRECTOR Timothy Edward Downs

PHOTO EDITOR Peter Alan Gould

DESIGNERS Frances Herrera Gunther, Jennifer Marino, Rob Schultz

CONTRIBUTING ILLUSTRATOR Regan Honda

VICE PRESIDENT, PUBLISHER Chris Dobbrow

MARKETING AND SALES

SUBSCRIPTION DIRECTOR Charles Mast

SINGLE-COPY SALES, MARKETING DIRECTOR James E. Gerth

DIRECTOR OF MARKETING Laurel Skillman

ASSOCIATE MARKETING DIRECTOR Nancy Garafano

SALES DEVELOPMENT DIRECTOR Kimberly Black

EVENTS MANAGER Cheryl Johnson

RESEARCH SPECIALIST Jennifer Pertoso

MARKETING COORDINATOR Cathy Lin

PRODUCTION

PRODUCTION DIRECTOR Carlos Lugo

PRODUCTION MANAGER Dennis Fitzgerald

ADVERTISING PRODUCTION COORDINATOR Corina Youdelman

ADMINISTRATIVE

EXECUTIVE ASSISTANT TO THE VP, PUBLISHER Lola L. Tanouye

How to Contact the Editors We welcome feedback. However, we can't respond to individual requests to look up stories from previous issues, recommend products, or diagnose PC problems. Send comments or complaints to 50 Beale St., 13th Floor, San Francisco, CA 94105; call us at (800) 676-4PCC; contact us via the Internet (PCCmail@zd.com) or CompuServe (72241,1724); or visit www.pccomputing.com to post a public message (see page 36). *PC Computing* is under no obligation to review unsolicited products. All unsolicited submissions become the property of *PC Computing*. If you want to make a submission, contact one of the following editors: **Features, Christine Grech Wendin; News and Reviews, Jack Lyon; Online, Stephen Howard.** If you buy a product advertised in *PC Computing*, are dissatisfied, and can't resolve the problem, write (please do not call) Lola L. Tanouye, Executive Assistant to the Publisher, at the above address. Include copies of all correspondence.

PC Computing on CD-ROM *PC Computing* is available as part of Computer Select, a CD-ROM published by Information Access Company. Each monthly issue of Computer Select contains the most recent year's issues of *PC Computing*, along with articles from over 70 computer magazines, newspapers, newsletters, and abstracts from over 40 more computer periodicals, business magazines, and newspapers. For more info, call Information Access Company/Computer Library at (800) 419-0313 ext. 718.

Subscription Inquiries/Change of Address Subscribe to *PC Computing* online at http://subscribe.pccomp.com. For subscription service questions, please write to *PC Computing*, P.O. Box 58229, Boulder, CO 80322-8229; or surf to http://subscribe.pccomp.com/service. The subscription rate is $24.97 for one year. For orders outside the U.S., add $16 (U.S.) per year for surface mail. For back issues (subject to availability), send a check or money order for $7 ($8 outside the U.S.) to Back Issues Department, Ziff-Davis Inc., P.O. Box 53131, Boulder, CO 80322-3131.

We didn't have to outprice the competition to outperform them.



Mylex's *FlashPoint*™ RAID*Plus*™

CHOISI PAR PC EXPERT
FlashPoint LT BUSLOGIC

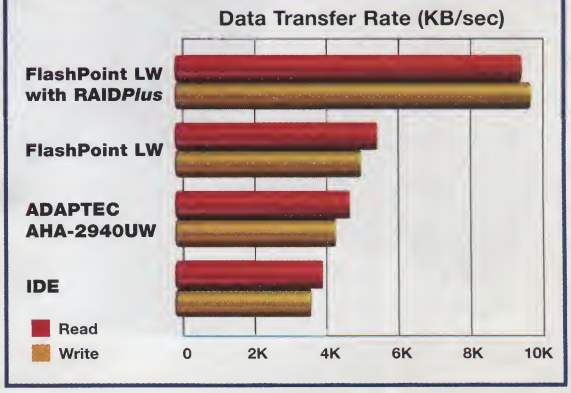
WIN 100 MAGAZINE 1997

The price of a Mylex FlashPoint™ SCSI Host Bus Adapter is significantly less than the Adaptec 2940UW. All things being equal, that's a compelling reason to choose FlashPoint. But things are definitely not equal; FlashPoint's performance is now so far advanced, it's pushing the 2940UW into unplanned obsolescence.

You see, Mylex's award-winning line of FlashPoint HBAs is now fully integrated with RAID*Plus*™, bringing all the advantages of RAID technology to any desktop or PC LAN environment. So for less than you'd pay for yesterday's 2940UW technology, you gain FlashPoint's state-of-the-art SCSI connectivity and performance. Teamed with the dramatic throughput acceleration, higher data availability, and rock-solid, fault-tolerant security of RAID.

Adding RAID*Plus* to your network is not just an enhancement—it's a performance breakthrough. Your data retrieval bottlenecks will disappear. Your access speed and throughput will increase up to 143 percent. And because RAID*Plus* distributes data across multiple disk drives, a disk crash no longer means data loss—you'll receive instantaneous back-up on all your drives, all the time. Best of all, RAID*Plus* comes at no additional cost to FlashPoint's already winning price.

Performance Comparison



FlashPoint with RAID*Plus*. An amazing value. With breathtaking results. From Mylex—the industry leader in RAID technology and SCSI solutions.

MYLEX ON BOARD™

Call our dedicated FlashPoint hotline.

1-800-796-4470
www.mylex.com

© Copyright 1997. All Rights Reserved. Mylex, the Mylex On Board logo, FlashPoint and RAID*Plus* are trademarks of Mylex Corporation. All other trademarks are the property of their respective holders.



Maximum engine rated speed is 8 PPM in economy mode. Actual print speeds vary depending on system configuration, software application, page complexity, amount of page covered and print settings. Prices may vary. EPSON and EPSON Stylus are registered trademarks of Seiko Epson Corp. Micro Piezo is a trademark of Epson America, Inc. © 1997 Epson America, Inc.

YOU'VE GOT TO SEE IT IN EPSON COLOR.



An amazing paint job makes you think it's a bathing suit. These astonishing new printers let you know it's not. 1440 x 720 dpi. Photo Quality color. Laser-sharp black text. All from our exclusive Micro Piezo™ Technology—for a smaller, more consistent dot. You'll get print quality that's already won 33 major awards, including PC Computing's 5 Star Rating. In standard format or wide format. PC/Mac compatibility. Optional internal Ethernet. Up to 8 ppm black/7 ppm color on the Epson Stylus® Color 800. Plus a 2-year warranty. Call 1-800-GO-EPSON (ask for operator 3064) or visit us at www.epson.com for more details. For every detail, look at the output.

INTRODUCING THE WORLD'S FIRST 1440 DPI COLOR INK JET PRINTERS.



EPSON Stylus Color 800 about $449. High-performance business printer.

EPSON Stylus Color 1520 about $799. The versatile wide format printer.

Circle 288 on reader service card.

AnthroCarts®!





AnthroCarts are *so* flexible. You have **dozens of shapes and sizes** to choose, plus over **50 accessories** to configure your cart exactly the way *you* want.



And they have a **Lifetime Warranty**! Made of steel and high density particle board, these AnthroCarts are as tough as nails.



See them all in our catalog, then call us direct to order. We'll ship to you the very next business day!

Call for your free catalog:

800-325-3841

6:00 AM to 6:00 PM PST, M–F

Anthro Corporation®
Technology Furniture®
10450 SW Manhasset Dr.
Tualatin, OR 97062
Fax: 800-325-0045
In Japan call: 03 (Tokyo)-3947-2735
www.anthro.com

ANTHRO®

Since 1984. Prices from $299. For a lower cost line for the home, ask for our Compacta catalog. GSA contract. Available for OEM applications. Anthro, AnthroCart and Technology Furniture are registered trademarks of Anthro.

PC Computing

ZIFF-DAVIS INC.
CHAIRMAN AND CEO Eric Hippeau
PRESIDENT Ronni Sonnenberg
PRESIDENT, U.S. PUBLICATIONS Claude Sheer
PRESIDENT, INTERACTIVE MEDIA AND DEVELOPMENT GROUP Jeffrey Ballowe
PRESIDENT, TRAINING AND SUPPORT PUBLISHING GROUP William Rosenthal
PRESIDENT, ZD BRAND AND MARKET GROUP Terri Holbrooke
VICE PRESIDENT, CHIEF FINANCIAL OFFICER Timothy O'Brien
VICE PRESIDENT, GENERAL COUNSEL, AND SECRETARY J. Malcolm Morris
VICE PRESIDENT, HUMAN RESOURCES Rayna Brown
VICE PRESIDENT, PLANNING Darryl R. Otte
VICE PRESIDENT, CONTROLLER Mark Moyer
VICE PRESIDENT, INFORMATION SYSTEMS Steve Gladyszewski
TREASURER Thomas L. Wright

U.S. PUBLICATIONS GROUP
PRESIDENT, U.S. PUBLICATIONS Claude Sheer
PRESIDENT, CONSUMER MEDIA GROUP Lawrence C. Burstein
SENIOR VICE PRESIDENT, CIRCULATION Baird Davis
EXECUTIVE VICE PRESIDENT, BUSINESS MEDIA GROUP Don Byrnes
EXECUTIVE VICE PRESIDENT, BUSINESS MEDIA GROUP Jack Dolce
EXECUTIVE VICE PRESIDENT, GROUP PUBLISHER Al DiGuido
VICE PRESIDENT, BUSINESS MANAGER Tom McGrade
VICE PRESIDENT, MARKETING SERVICES Jim Manning
VICE PRESIDENT, CENTRAL ADVERTISING SALES Bob Bader
VICE PRESIDENT, PRODUCTION Roger Herrmann
VICE PRESIDENT, PRODUCT TESTING Mark Van Name
VICE PRESIDENT, CIRCULATION SERVICES James F. Ramaley
VICE PRESIDENTS Chris Dobbrow, John Dodge, Jim Louderback, Michael Miller, Nancy Newman, Paul Somerson, Sam Whitmore
EXECUTIVE DIRECTOR, LICENSING Gertrud Borchardt
DIRECTOR, ZD LABS Mark Hall
DIRECTOR, BENCHMARK OPERATION Bill Catchings

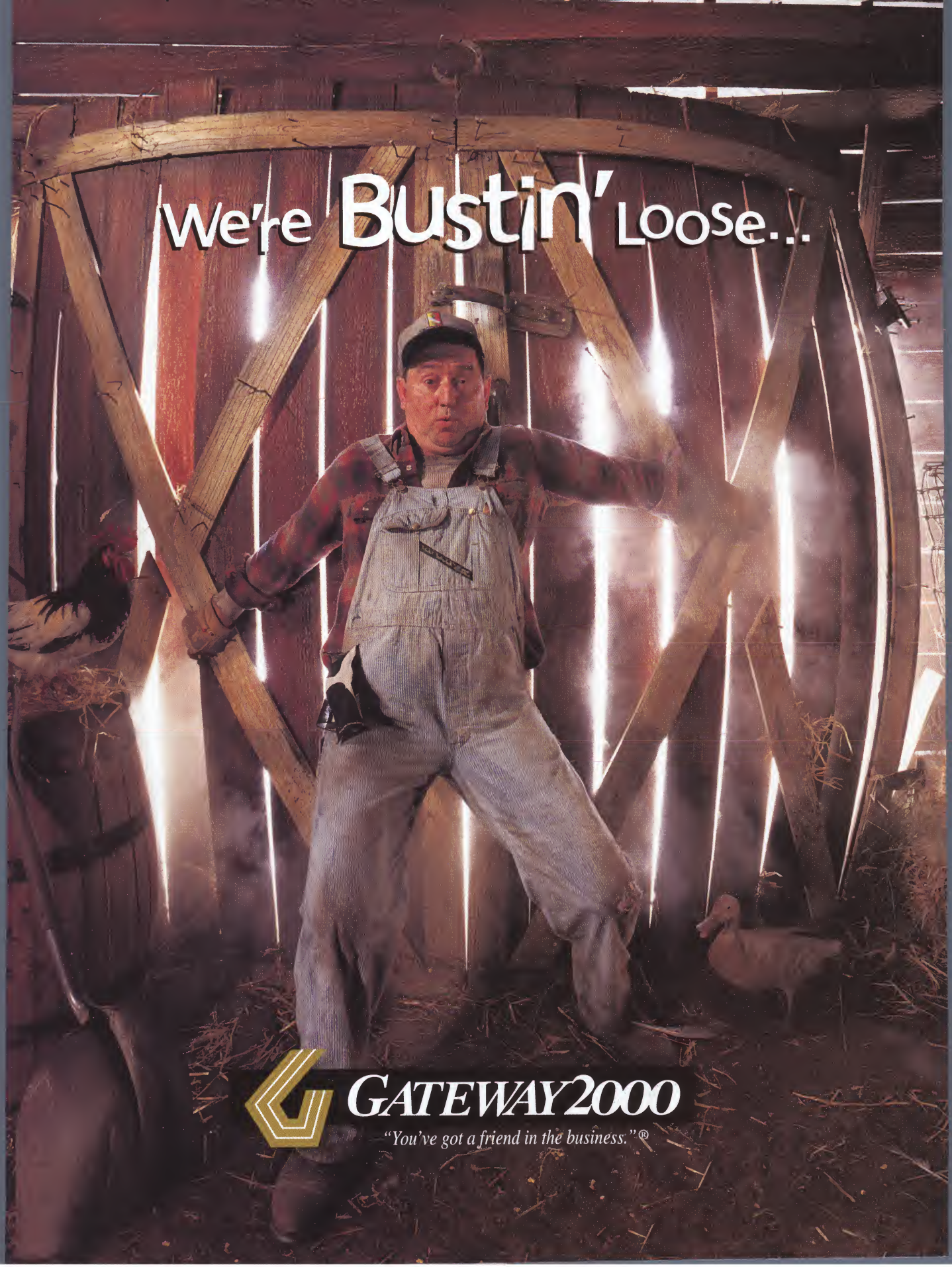
INTERACTIVE MEDIA AND DEVELOPMENT GROUP
PRESIDENT Jeffrey Ballowe
EXECUTIVE VICE PRESIDENT David Shnaider
EXECUTIVE VICE PRESIDENT, PRESIDENT OF ZDNET Daniel Rosensweig
VICE PRESIDENT, EDITOR-IN-CHIEF ZDNET Daniel Farber
VICE PRESIDENT, GENERAL MANAGER ZDNET James Savage
VICE PRESIDENT, ZDTV Richard Fisher
EDITORIAL DIRECTOR, NEW PRODUCTS Bill Machrone
GROUP BUSINESS MANAGER Jocelyn Grayson

ZD BRAND AND MARKET GROUP
PRESIDENT, ZD BRAND AND MARKET GROUP Terri Holbrooke
PRESIDENT, COMPUTER INTELLIGENCE Bob Brown
VICE PRESIDENT, ZD BRAND Herb Stern
VICE PRESIDENT, ZD RESEARCH Elda Vale
DIRECTOR, CORPORATE RELATIONS Gregory Jarboe
EXECUTIVE VICE PRESIDENT, CORPORATE SALES Joe Gillespie
EXECUTIVE DIRECTOR, SALES MARKETING Michael Perkowski
ZIFF-DAVIS MEDIA NETWORK:
EXECUTIVE DIRECTOR Jeff Bruce
MANAGING DIRECTOR Rita Burke
DIRECTORS Ken Beach, Michael Bird, Dan Daly, Melinda Maginn, Scott Murphy
ASSOCIATE NETWORK DIRECTORS Robin Kofsky, Debbie Moss, Julie Tuttle

ZD SOFTBANK ZIFF-DAVIS

Mailing Lists We periodically make lists of our customers available to carefully screened mailers of quality goods and services. If you don't wish to receive such mailings, please let us know by writing to us at *PC Computing*, P.O. Box 58229, Boulder, CO 80322-8229.

PC Computing is a registered trademark, and Office Computing, From the Editors of PC Computing, is a trademark of Ziff-Davis Inc. Entire contents copyright © 1997 by Ziff-Davis Inc. All Rights Reserved. The following are also trademarks of Ziff-Davis Inc.: American Computing, Fast Facts, The Magazine for Business Computing Experts, PC Contact, PC Sources, Perfect 10, Personal Computing, Pro Tips, Software Secrets, and The Ultimate PC.

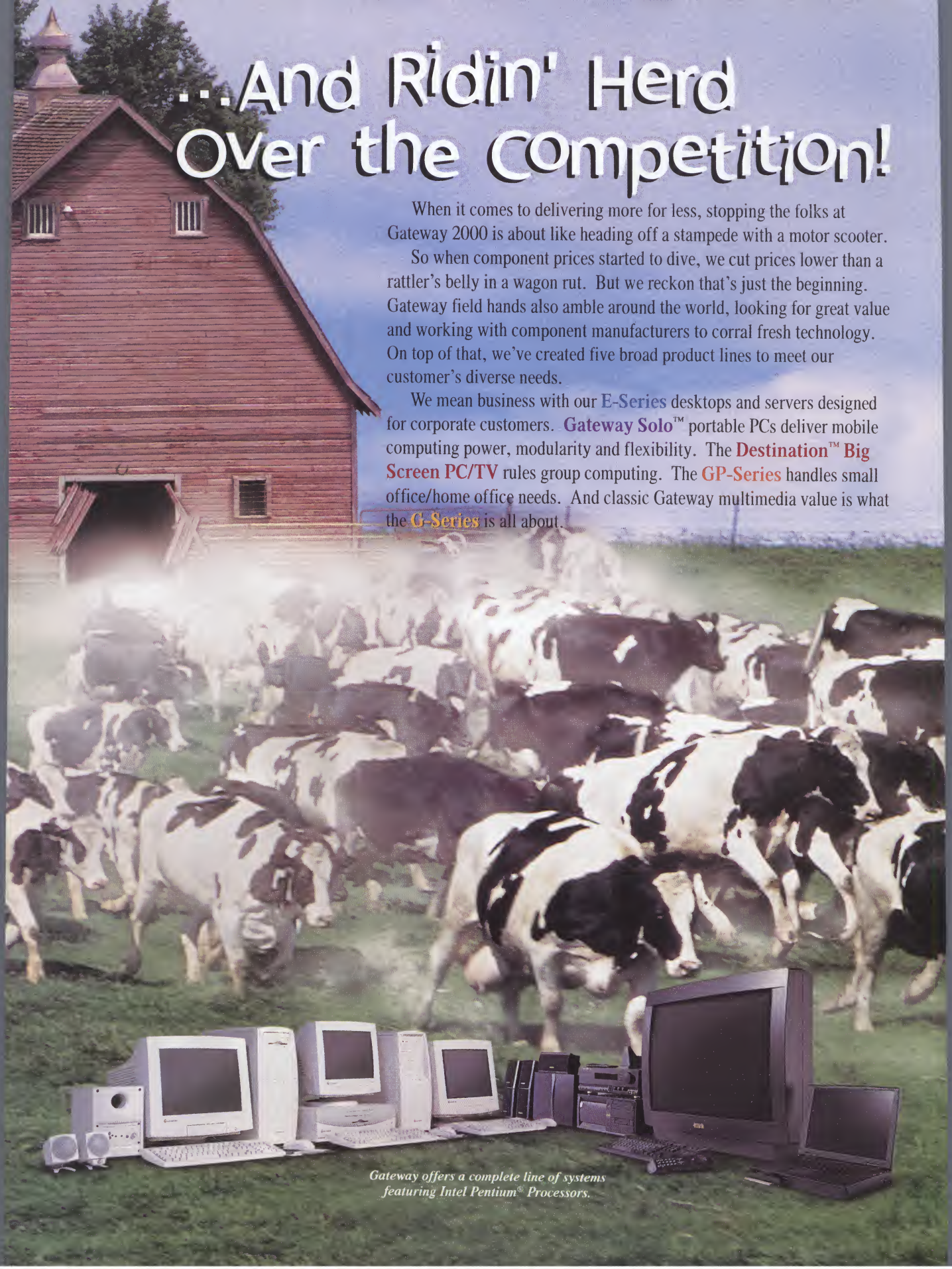

We're Bustin' Loose...
GATEWAY2000
"You've got a friend in the business."®

...And Ridin' Herd Over the Competition!

When it comes to delivering more for less, stopping the folks at Gateway 2000 is about like heading off a stampede with a motor scooter.

So when component prices started to dive, we cut prices lower than a rattler's belly in a wagon rut. But we reckon that's just the beginning. Gateway field hands also amble around the world, looking for great value and working with component manufacturers to corral fresh technology. On top of that, we've created five broad product lines to meet our customer's diverse needs.

We mean business with our **E-Series** desktops and servers designed for corporate customers. **Gateway Solo™** portable PCs deliver mobile computing power, modularity and flexibility. The **Destination™ Big Screen PC/TV** rules group computing. The **GP-Series** handles small office/home office needs. And classic Gateway multimedia value is what the **G-Series** is all about.



Gateway offers a complete line of systems featuring Intel Pentium® Processors.

Quality And Service Wear Our Brand

If you see the Gateway mark branded into the hide of anything, you know it's been tested more times than a bull rider in August and backed by customer service pros who know the business end of a chip set.

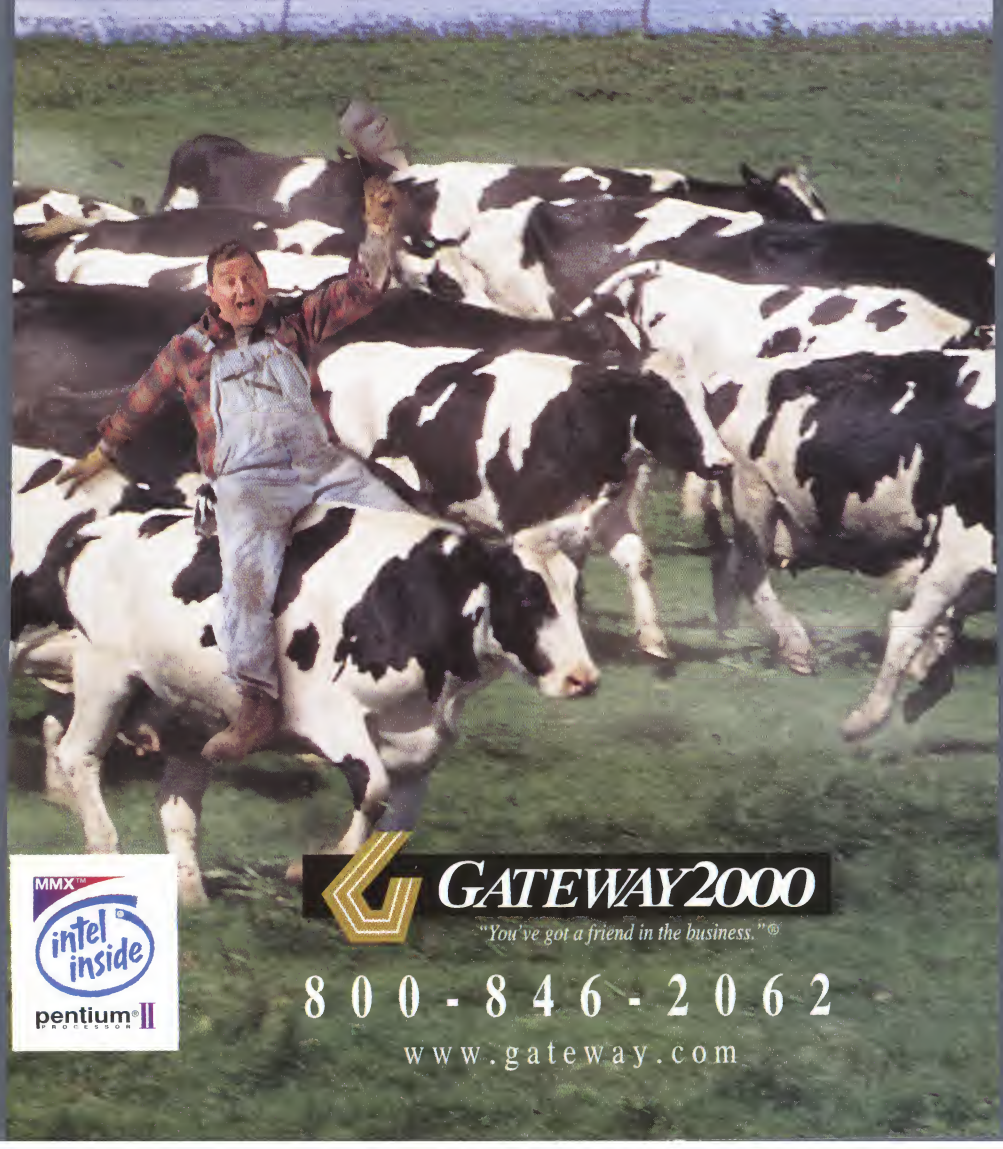
To help keep you in the computing saddle, we back all our systems with limited warranties. Call or write for free copies. And once you join the Gateway customer family, you'll have a technical support friend just a toll-free phone call away, 24 hours a day.

Highest Brand Loyalty, Bar None

No wonder an IDC/ACNielsen survey of computer owners showed Gateway had the highest brand loyalty of any computer maker in the U.S. home market, even better than those guys with the fruit logo.*

Give Gateway a holler today and get in on the stampede of value. We'll be glad to cut one from the herd and deliver it to your door.

*Based on percentage of computer owners planning to buy another computer of the same brand as they currently own between 11/1/96 and 7/31/97.



New In These Parts?

Not only does Gateway ride herd on the PC stampede for our customers, we're always looking for new things worthy of the Gateway brand that can drive your PC productivity and enjoyment to a whole new level.

Because we talk to about 30,000 customers a day, Gateway has a unique perspective on what folks want in their computers. We also ask Gateway employees who market, build, sell and service our PCs what they think will benefit customers most.

With all that information, we hunker down with customer survey research and huddle with our vendor allies to anticipate when new technology will come onto the market.

It's all about looking six months or more down the road and lining things up to make it easy for our customers to get the latest technology. Take a gander at the new features we're offering and give us a call.



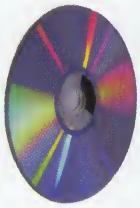
GATEWAY™ Servers



No matter how big your business is, Gateway servers can ride herd on your data. Fault-tolerant features such as N+1 redundant power supplies, multi-drive RAID support and error-correcting memory help safeguard your data. Choices include **Pentium® II** processors, up to six Pentium® Pro processors and a maximum of 4GB of RAM.

Our servers also feature the InforManager™ manageability subsystem, a series of 30 integrated sensors that monitor temperature, voltage, fan, power supplies and software to let you know if anything needs attention.

DVD (Digital Versatile Disc)



The new multimedia sheriff goes by the initials DVD, and is fixin' to create a whole new standard throughout the computer territories. One Digital Versatile Disc holds 4.7GB of data, a sprawling data prairie that's seven times the capacity of a CD, room enough for up to 133 minutes of video that makes your VCR tapes seem as fuzzy as the Badlands in a dust storm.

EV900 Monitor



A while back, we saddled up some jet airplanes and searched the world for a better monitor. First we found a great monitor tube. Custom designed a case around it. The resulting EV900 is a 19-inch monitor (18-inch viewable) that takes up about the same space on your desktop as our 17-inch monitor (15.9-inch viewable) without skimping on quality.

Boston Acoustics® Speakers



What good is great multimedia if your computer has speakers as tired as a draft horse on Saturday? We sat a spell with the folks at Boston Acoustics and found a way to bring their award-winning sound to our PCs. Gateway yokes these great speakers to some mighty fine sound cards to break new PC audio ground.

Gateway Solo™ Portable Modularity



Our portable components are modular, so many of them can be swapped between different Gateway Solo portables. Now you can mix and match one set of batteries, AC power packs and memory chips between several 2300 and 9100 portables. More flexible than a well-oiled lasso and twice as sleek.

MMX™ intel inside pentium® II PROCESSOR

GATEWAY2000

"You've got a friend in the business."®

800-846-2062

www.gateway.com

What's Hot

Prairie Value, City Savvy

When you grow from nothing to $5 billion in 11 years, you tend to know what it takes to run a business. Experience from our own amazing growth and suggestions from our customers, sales groups and manufacturing teams led to our GATEWAY™ E-Series PCs and servers. After we designed the systems, we put them through extreme network environment tests. Geared just for business, education and government customers, the E-Series line kicks up its heels with:

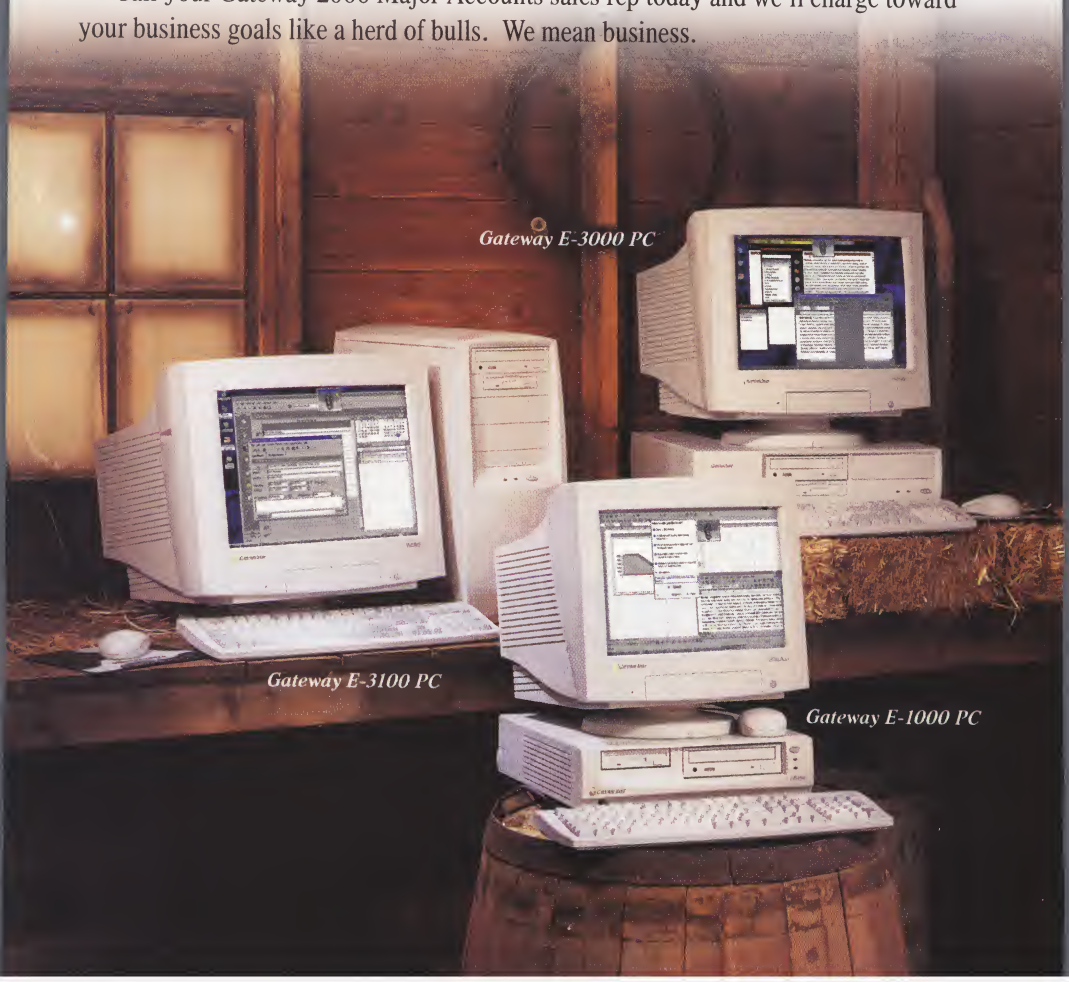
Manageability — DMI-compliant PCs let your IS team know what's going on without popping the case. The InforManager subsystem in our servers monitors key functions and alerts you of potential failures.

Product Stability — Nothing more annoying than having skitterish PC vendors constantly changing their base platforms. Gateway's solid desktop and server platforms let you standardize on configurations that fit your enterprise. You can manage technology upgrades as they make sense for your particular outfit.

Serviceability — Easy-open cases let you get into our systems in a flash. And our team of highly trained, dedicated technical support pros are ready around the clock just in case you need the digital cavalry.

Flexibility — No matter what size systems you need, you make the decisions on what goes into your E-Series desktop PCs and servers. Your sales rep will listen to your needs and find a configuration that gets it done.

Call your Gateway 2000 Major Accounts sales rep today and we'll charge toward your business goals like a herd of bulls. We mean business.



Gateway Servers

- Intel Pentium® Pro or **Pentium® II** Processors
- A Full Range of Solutions with up to 6-way Processor Support
- Pre-installed High-Bandwidth Network Options
- InforManager™ Subsystem for Server Management
- Variety of High Performance Storage Solutions Including Hot-Swappable Internal RAID

Prices starting at **$2499** *(Quantity 1)*



Gateway E-Series PCs

- Intel Pentium,® Pentium Pro or **Pentium II** Processors
- High-Performance SCSI, EIDE or Ultra ATA Hard Drives
- 2-D or 2-D/3-D Video Adapters
- Pre-installed High-Bandwidth Network Options
- E-Series Low Profile, Desktop or Mid-Tower Case
- Pre-loaded with Microsoft® Windows® 95 or Windows NT® Workstation 4.0
- Hardware Management Features
- Desktop Management Interface (DMI) 1.1 Compliant
- Gateway Gold™ Service and Support for E-Series PCs◆◆

Prices starting at **$979** *(Quantity 1)*

◆◆*E-Series PCs are covered by a three-year limited warranty. Service varies by product. Call or write for details and a free copy of our limited warranty.*

Custom Integration Services

Say your corporation or institution uses a specific inventory control program or certain type of backup storage device.

For volume purchasers, Gateway's CIS crew can help you get some of that hardware or software built into your new systems, pre-tested and shipped to your door. It doesn't matter if we normally sell it or not.

That means you don't have to pay any other outfit to add hardware and software to your Gateway systems. They come right to your corral ready to go to work.

Gateway Extras

(Available only with system purchase.)

- PCI Token Ring Adapter **$149**
  3Com® PCI 10/100 TP Adapter **$49**
  (both upgrades from ISA TPO 10BASE-T Adapter)
- MS® Windows NT Workstation 4.0 Upgrade **$99**
- 3.2GB Ultra ATA Hard Drive
  6.4GB Ultra ATA Hard Drive
  (Call for upgrade pricing.)
- Printers *(Call for information and pricing.)*
- Customized Service Options
  (Call for information and pricing.)

Please call for current pricing on RAM and other upgrades.

MMX™ intel inside pentium® II PROCESSOR

GATEWAY2000

"You've got a friend in the business."®

800-846-2062

www.gateway.com

Gateway E-Series PCs For Business

Computing That's At Home On The Range

Gateway Solo portable PCs are thundering through the mobile computing world, leaving a flutter of blue ribbons and trophies in their wake.

When Gateway's mobile PC crew designed our flagship Gateway Solo 9100 portable they had one priority: features. The result is a portable loaded for bear with features normally found only in desktop PCs. If you're looking for a more classic mobile PC, the 2300 line delivers plenty of power and performance. It's ideal for the corporate fleet.

No matter which portable fits your needs, with Gateway you get:

Modularity — Besides being loaded, Gateway Solo 9100 portables can swap many components with their counterparts in the 2300 series. Now IS can buy one supply of components interchangeable with the entire fleet of 2300 and 9100s. Modularity also helps protect your investment with easily changeable components.

On top of that, all our Gateway Solo portables work with all our docking stations.

Choices — Not only does Gateway have multiple lines of mobile PCs, but you'll never get some pre-built portable that's been sitting on a shelf. Gateway customers decide what goes into their mobile PCs and then we build them fresh and ship them out.

Fresh technology — No hand-me-downs from the desktops here. Gateway gets the freshest mobile PC components on the market and only builds your Gateway Solo portable PC after you order it.

Slip a Gateway Solo portable PC into your saddle bag and you're ready for the road, no matter where you're going.

"Maximum data transfer rate dependent on certain variables including particular modems with which you are communicating, telephone lines, communications software and communications protocols



Gateway Solo™ Portable PCs

2300SE

- 12.1" SVGA DSTN Color Display
- Intel® 133MHz Pentium® Processor
- 16MB EDO DRAM (expandable to 192MB)
- 256K Pipelined Burst Cache
- 128-Bit Graphics Accelerator w/ 64K Colors
- Modular 6X min/11X max CD-ROM Drive
- Modular 3.5" Diskette Drive
- USB Ports & Zoomed Video
- NTSC/PAL Video Output
- 2GB Hard Drive
- 16-Bit Sound & Stereo Speakers
- NiMH Battery & AC Pack
- 85-Key MS® Windows® 95 Keyboard
- EZ Pad® Pointing Device
- Casual Carrying Case
- Microsoft® Windows 95
- MS Works 95
- Gateway Gold™ Service & Support for Portable PCs

$2149 As low as* $75/mo.

2300LS

- 12.1" SVGA TFT Color Display
- Intel 150MHz Pentium® Processor with MMX™ Technology
- 32MB SDRAM (expandable to 192MB)
- 256K Pipelined Burst Cache
- 128-Bit Graphics Accelerator w/ 64K Colors
- Modular 6X min/11X max CD-ROM Drive
- Modular 3.5" Diskette Drive
- USB Ports & Zoomed Video
- NTSC/PAL Video Output
- 3GB Hard Drive
- 16-Bit Wavetable Sound & Stereo Speakers
- PCMCIA 33.6 Data**/14.4 Fax Modem
- 12-Cell Li-Ion Battery & AC Pack
- 85-Key MS Windows 95 Keyboard
- EZ Pad Pointing Device
- Casual Carrying Case
- MS Windows 95 & MS Office 97, Small Business Edition plus Encarta® 97
- Gateway Gold Service & Support for Portable PCs

$3849 As low as* $134/mo.

9100XL BEST BUY

- **13.3" (1024 x 768 resolution) XGA Color Display**
- Intel 233MHz Pentium Processor with MMX Technology via IMM® Package
- 64MB SDRAM (expandable to 192MB)
- 256K Pipelined Burst Cache
- **4MB EDO Video RAM (1280 x 1024 external)**
- **Removable Combo 6X min/11X max CD-ROM & 3.5" Diskette Drive (allows for second battery pack)**
- USB Ports & Zoomed Video
- NTSC/PAL Video Input & Output with frame capture capability
- 5GB Hard Drive
- Premium Sound System w/ 16-Bit Wavetable Sound & Yamaha Stereo Speakers
- PCMCIA Modem with x2 Technology**
- Two 12-Cell Lithium Ion Batteries & AC Pack
- Full 88-Key MS Windows 95 Keyboard with 19mm pitch & 3mm travel
- EZ Pad Pointing Device
- 15-Pin MIDI/Game Port
- Executive Carrying Case
- Gateway Solo Mini Docking Station
- MS Windows 95 & MS Office 97, Small Business Edition plus Encarta 97
- Gateway Gold Service & Support for Portable PCs

9100XL $5899 As low as* $205/mo.

9100LS $4599 As low as* $160/mo.

(200MHz Pentium Processor with MMX Technology, 3GB Hard Drive, 32MB SDRAM, One Li-Ion Battery, Casual Case.)

Gateway Extras

(Some items only available to new or existing Gateway customers or with the purchase of a system.)



- Gateway Solo Docking Station **$599**



- Gateway Solo Mini Docking Station **$199**
- Additional 2300/9100 Lithium-Ion Battery **$200** *(with system purchase)*



- Printers *(Call for information and pricing.)*

Please call for current pricing on RAM and other upgrades.

MMX™ intel inside pentium® PROCESSOR

GATEWAY2000

"You've got a friend in the business."®

800-846-2062

www.gateway.com

Gateway Solo Portable PCs For The Road

Bigger Than All Outdoors

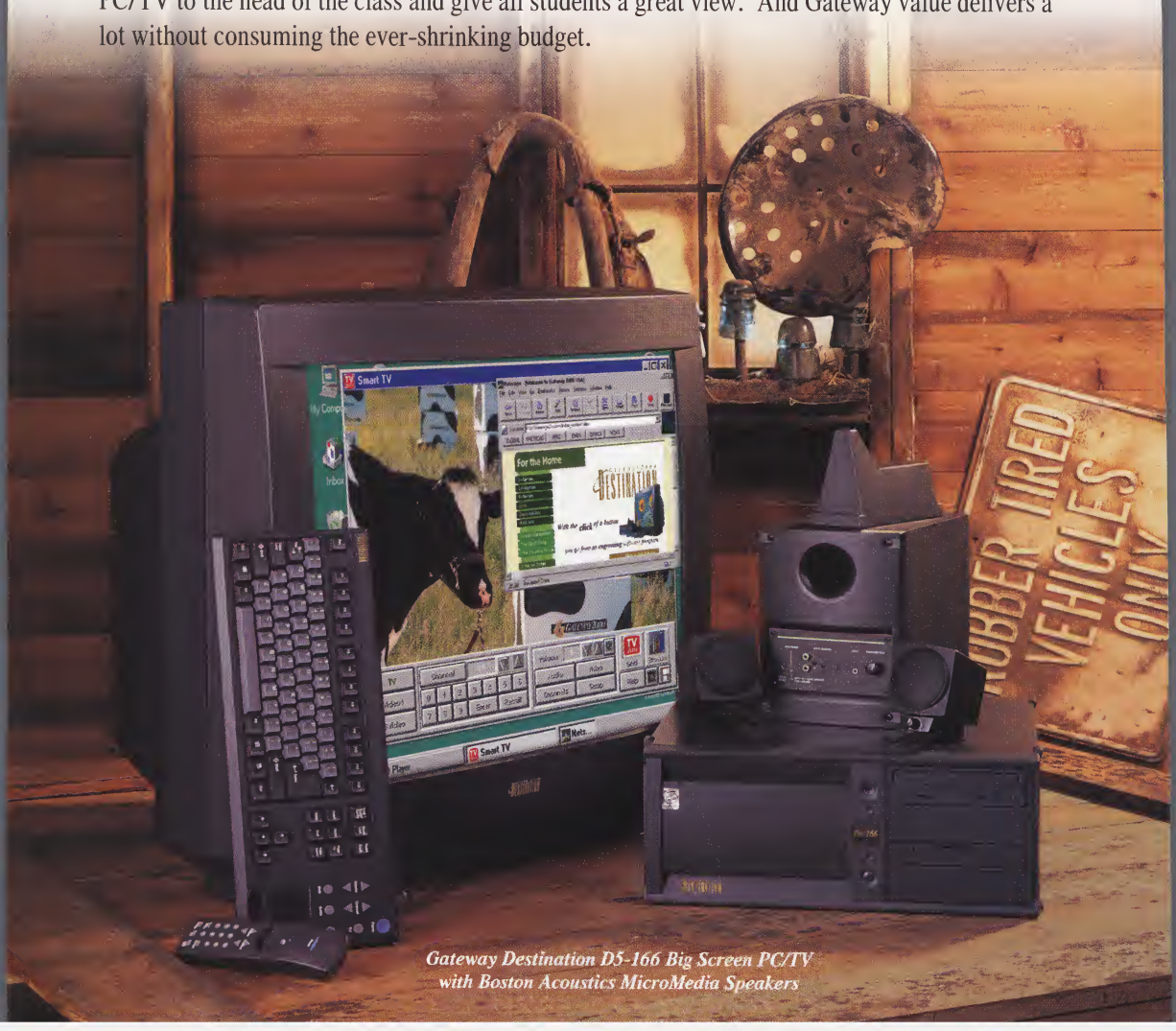
Hailing from South Dakota, wide open spaces have always attracted Gateway. So it's no wonder we invented a whole new computer category by introducing the Destination Big Screen PC/TV in April 1996.

Its huge 31-inch monitor, wireless keyboard and Field Mouse remote make the Destination Big Screen PC/TV a system born and bred for group use. And, with a click of the mouse button, the Destination system becomes a fully functional television. The Destination Big Screen PC/TV includes options like the power of a **Pentium® II** processor and the amazing digital video of DVD. Custom configure one to fit your needs and yank computing out of the den and into the:

Family room — Computing and exploring the Internet just became group activities. After a year on the market, 61% of Destination system owners we surveyed said they spent more time with their families as a result of the Destination Big Screen PC/TV.

Conference room — Now you can combine the presentation power of a big screen computer with the functions of a video system. Add your video cassette player, cable TV hookup and phone line and you've got one system that does it all, at a price that will let you outfit all your conference rooms.

Classroom — How do you teach computer-based lessons to a class? The screen size of a traditional desktop made it tedious at best. Now educators can wheel the Destination Big Screen PC/TV to the head of the class and give all students a great view. And Gateway value delivers a lot without consuming the ever-shrinking budget.



Gateway Destination D5-166 Big Screen PC/TV with Boston Acoustics MicroMedia Speakers

GATEWAY™ Destination™ Big Screen PC/TVs

D5-166

- Intel® 166MHz Pentium® Processor with MMX™ Technology
- 32MB SDRAM
- 512K Pipelined Burst Cache
- Destination 31" VGA Monitor
- 2MB Graphics Accelerator w/ Cable-Ready TV Tuner
- 2GB 11ms Ultra ATA Hard Drive
- 12X min/24X max CD-ROM & 3.5" Diskette Drives
- Ensoniq® Wavetable Audio
- **Boston Acoustics® MicroMedia™ Speakers**
- TelePath® Modem *for Windows* with x2™ Technology**
- 7-Bay Charcoal-Colored PC Case
- Wireless Keyboard w/ Integrated EZ Pad® Pointing Device
- Wireless Field Mouse® Remote
- Microsoft® Windows® 95
- Home Software Titles
- Gateway Gold™ Service & Support◆ for Big Screen PC/TVs

D5-166 $2499 As low as× $87/mo.

D5-200 $2999 As low as× $104/mo.

(200MHz Pentium Processor with MMX Technology, 4GB Hard Drive, DVD-ROM Drive and DVD Decoder)

D6-233

- Intel 233MHz **Pentium® II** Processor with 512K Cache
- 64MB EDO DRAM
- Destination 31" VGA Monitor
- 2MB Graphics Accelerator with Cable-Ready TV Tuner
- 4GB 11ms Ultra ATA Hard Drive
- **DVD-ROM Drive & DVD Decoder Card**
- 3.5" Diskette Drive
- Ensoniq Wavetable Audio
- **harman/kardon® High-Fidelity Sound System**
- TelePath Modem *for Windows* with x2 Technology**
- 7-Bay Charcoal-Colored PC Case
- Wireless Keyboard w/ Integrated EZ Pad Pointing Device
- Wireless Field Mouse Remote
- MS® Windows 95
- Home Software Titles
- Gateway Gold Service & Support◆ for Big Screen PC/TVs

$3999 As low as× $139/mo.

◆*The Destination 31-inch monitor is covered by a one-year limited warranty. Call or write for a free copy.*

D6-300XL

- Intel 300MHz **Pentium II** Processor with 512K Cache
- 64MB EDO DRAM
- Destination 31" VGA Monitor
- 2MB Graphics Accelerator with Cable-Ready TV Tuner
- PowerVR 3-D Graphics Accelerator
- 8GB 8.5ms Ultra ATA Hard Drive
- **DVD-ROM Drive & DVD Decoder Card**
- 3.5" Diskette Drive
- Ensoniq Wavetable Audio
- **harman/kardon High-Fidelity Sound System**
- TelePath Modem *for Windows* with x2 Technology**
- 7-Bay Charcoal-Colored PC Case
- Wireless Keyboard w/ Integrated EZ Pad Pointing Device
- Wireless Field Mouse Remote
- MS Windows 95
- Home Software Titles
- Gateway Gold Service & Support◆ for Big Screen PC/TVs

$4599 As low as× $160/mo.

Gateway Extras

(Some items only available to new or existing Gateway customers or with the purchase of a system.)



- Logitech™ WingMan® Extreme™ Joystick **$39**
- Additional Destination 31-inch VGA Color Monitor **$999**
- EasyPhoto Drive™ Photo Scanner **$129** *(with system purchase)*



- Epson® PhotoPC™ 500 Digital Camera **$499**
- Epson Stylus® COLOR 600 Ink Jet Printer **$299**

Please call for current pricing on RAM and other upgrades.

MMX™ intel inside pentium® II PROCESSOR

GATEWAY2000

"You've got a friend in the business."®

800-846-2062

www.gateway.com

Destination Big Screen PC/TVs For Group Computing

Big Systems For Small Operations

The GATEWAY™ GP-Series professional PCs aim to deliver one system that can do many things for small- and medium-sized business. Head-of-the-pack technology lets our GP-Series PCs take care of everything from inventory to accounting. We deliver MMX™ technology across the line and options that include the **Pentium® II** processor, huge backup storage devices and software that can boost business productivity. The GP-Series systems tackle your business needs like a steer wrestler in the championship go-round.

You Call The Shots — Because you know more about your business needs than anyone, you decide what goes into your GP-Series system. Our sales representatives can help you assess your needs and explain your options. But you make the final call.

Fresh Technology — Intel Pentium processors with MMX technology can take care of your business needs, thanks to our philosophy of combining them in fresh configurations. Things like 512K cache, plenty of RAM and Ultra ATA hard drives up to 6.4GB make Pentium processors perfect for your small office/home office needs.

Software That's Part Of The Deal — Gateway knows hardware is just part of the bargain. You also need software, and we've got it in standard and optional packages. So while some companies charge you extra for the basics like anti-virus software and productivity programs, Gateway throws them in with the system, no extra charge.



Gateway GP-Series Professional systems offered in your choice of tower or desktop model.

Gateway GP-Series PCs for the Office Professional

GP5-166

- Intel® 166MHz Pentium® Processor with MMX™ Technology
- 32MB DRAM
- 512K Pipelined Burst Cache
- EV500 .28 Screen Pitch 15" Monitor (13.9" viewable)
- 2MB 3-D 64-Bit PCI Graphics
- 2GB 11ms Ultra ATA Hard Drive
- 12X min/16X max CD-ROM & 3.5" Diskette Drives
- GP-Series Desktop Case
- 104+ Keyboard & MS® IntelliMouse™
- Microsoft® Windows® 95 & MS Office 97, Small Business Edition plus Encarta® 97
- Gateway Gold™ Service & Support for GP-Series PCs

$1449 Business Lease† $54/mo.

GP5-200

- Intel 200MHz Pentium Processor with MMX Technology
- 32MB DRAM
- 512K Pipelined Burst Cache
- CrystalScan®700 .28 Screen Pitch 17" Monitor (15.9" viewable)
- 2MB 3-D 64-Bit PCI Graphics
- 2GB 11ms Ultra ATA Hard Drive
- 12X min/24X max CD-ROM & 3.5" Diskette Drives
- GP-Series Desktop Case
- 104+ Keyboard & MS IntelliMouse
- MS Windows 95 & MS Office 97, Small Business Edition plus Encarta 97
- Gateway Gold Service & Support for GP-Series PCs

$1749 Business Lease† $64/mo.

GP6-233

- Intel 233MHz **Pentium® II** Processor with 512K Cache
- 64MB DRAM
- CrystalScan700 .28 Screen Pitch 17" Monitor (15.9" viewable)
- 4MB 3-D 64-Bit Graphics
- 4GB 11ms Ultra ATA Hard Drive
- 12X min/24X max CD-ROM & 3.5" Diskette Drives
- GP-Series Mid-Tower Case
- 104+ Keyboard & MS IntelliMouse
- MS Windows 95 & MS Office 97, Small Business Edition plus Encarta 97
- Gateway Gold Service & Support for GP-Series PCs

$2399 Business Lease† $88/mo.

GP6-266 BEST BUY

- Intel 266MHz **Pentium II** Processor with 512K Cache
- 64MB DRAM
- ▸ **EV900 .26 Screen Pitch 19" Monitor** (18" viewable)
- 4MB 3-D 64-Bit Graphics
- 6.4GB 10ms Ultra ATA Hard Drive
- 12X min/24X max CD-ROM & 3.5" Diskette Drives
- GP-Series Mid-Tower Case
- 104+ Keyboard & MS IntelliMouse
- MS Windows 95 & MS Office 97, Small Business Edition plus Encarta 97
- Gateway Gold Service & Support for GP-Series PCs

$2899 Business Lease† $107/mo.

Gateway Extras

(Some items only available to new or existing Gateway customers or with the purchase of a system.)



- Hewlett®-Packard DeskJet 820Cse Color Printer **$299**
- TR4 IDE 4GB Tape Backup Unit with Tape **$199** *(with system purchase)*
- TelePath® Modem *for Windows* with x2™ Technology** **$79**
- Iomega® Internal ZIP™ Drive with Two Discs **$99** *(with system purchase)*

Please call for current pricing on RAM and other upgrades.

MMX™ intel inside pentium® II PROCESSOR

GATEWAY2000

"You've got a friend in the business."®

800-846-2062

www.gateway.com

GP-Series PCs For The Office Professional

High-Tech Multimedia, Down-Home Values

No sense in making things complicated. Give customers fresh technology at amazing prices. That's the long and the short of GATEWAY™ G-Series multimedia PCs. These systems deliver the latest multimedia wonders, including MMX technology priced for everyone and the unbeatable value of the amazing **Pentium® II** processor.

Freshness That Puts The Competition On Edge

By refusing to build even one system before someone orders it and keeping our component inventory among the freshest in the industry, we've spooked our competitors for years.

Gateway constantly searches for the greatest deals on the latest technology, like the **300MHz Pentium II** processor. Then we pack our systems with value and have technical support standing by to help 24 hours a day.

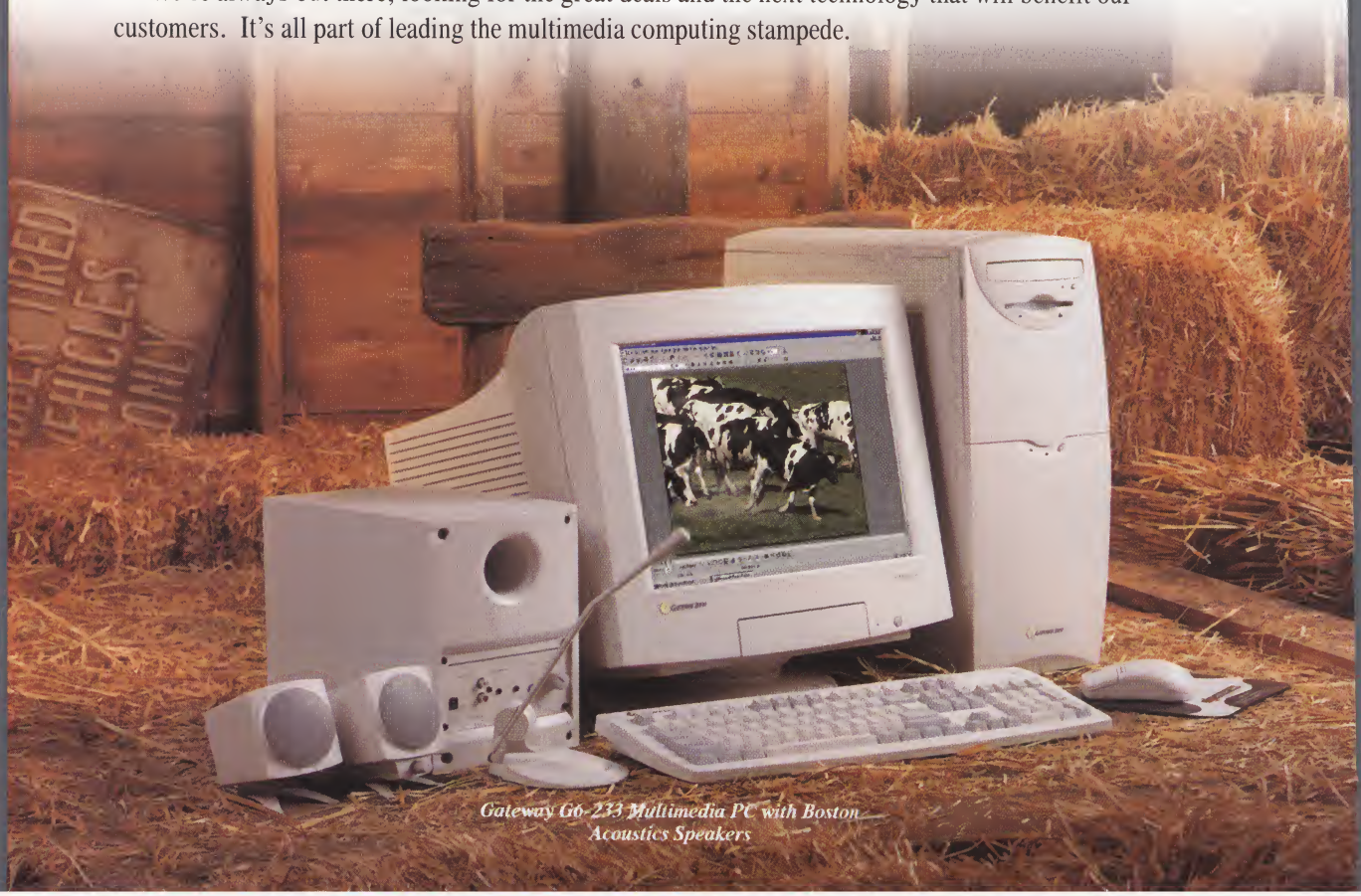
Pentium II Processor Power, MMX Technology, DVD Magic

When the **Pentium II** processor was coming out, we took a look-see and discovered this processor was a great deal for *everyone*. So we worked with Intel to secure a processor pipeline so we could deliver for our customers. We moseyed around the globe and found a way to lasso DVD-ROM drives. Same deal on the breakthrough EV900 monitor and the pristine sound of Boston Acoustics speakers.

Large Needs? Small Budget? We've Got You Covered

Looking for something to ease yourself into the computing world or to use as a second system? No problem. Check out the G5-166 multimedia PC complete with printer for $1,499. No matter what your needs or budget, we've got a system that fits.

We're always out there, looking for the great deals and the next technology that will benefit our customers. It's all part of leading the multimedia computing stampede.



Gateway G6-233 Multimedia PC with Boston Acoustics Speakers

Gateway G-Series Multimedia PCs for the Home

G5-166

- Intel® 166MHz Pentium® Processor with MMX™ Technology
- 16MB DRAM
- 512K Pipelined Burst Cache
- EV500 .28 Screen Pitch 15" Monitor (13.9" viewable)
- 2MB 3-D 64-Bit PCI Graphics
- 1.6GB 12ms Ultra ATA Hard Drive
- 12X min/16X max CD-ROM & 3.5" Diskette Drives
- Ensoniq® Wavetable Audio
- Altec™ Lansing ACS-41 Speakers
- TelePath® Modem *for Windows* with x2™ Technology**
- G-Series Desktop Case
- 104+ Keyboard & Microsoft® Mouse
- MS® Windows® 95 & Home Software Bundle
- ▸ **Color Bubble Jet Printer**
- Gateway Gold™ Service & Support for G-Series PCs

$1499 As low as× $52/mo.

G5-200

- Intel 200MHz Pentium Processor with MMX Technology
- 32MB DRAM
- 512K Pipelined Burst Cache
- CrystalScan®700 .28 Screen Pitch 17" Monitor (15.9" viewable)
- 2MB 3-D 64-Bit PCI Graphics
- 2GB 11ms Ultra ATA Hard Drive
- 12X min/24X max CD-ROM & 3.5" Diskette Drives
- Ensoniq Wavetable Audio
- Altec Lansing ACS-41 Speakers
- TelePath Modem *for Windows* with x2 Technology**
- G-Series Desktop Case
- 104+ Keyboard & MS IntelliMouse™
- MS Windows 95
- Home Software Titles
- MMX Technology-Enhanced Software
- Gateway Gold Service & Support for G-Series PCs

$1799 As low as× $63/mo.

G6-233

- Intel 233MHz **Pentium® II** Processor with 512K Cache
- 32MB DRAM
- CrystalScan700 .28 Screen Pitch 17" Monitor (15.9" viewable)
- 4MB 3-D 64-Bit Graphics
- 4GB 11ms Ultra ATA Hard Drive
- 12X min/24X max CD-ROM & 3.5" Diskette Drives
- Ensoniq Wavetable Audio
- ▸ **Boston Acoustics® MicroMedia™ 3-Piece Speaker System**
- TelePath Modem *for Windows*, with x2 Technology**
- G-Series Mid-Tower Case
- 104+ Keyboard & MS IntelliMouse
- MS Windows 95
- Home Software Titles
- MMX Technology-Enhanced Software
- Gateway Gold Service & Support for G-Series PCs

$2399 As low as× $84/mo.

G6-266 BEST BUY

- Intel 266MHz **Pentium II** Processor with 512K Cache
- 64MB DRAM
- ▸ **EV900 .26 Screen Pitch 19" Monitor** (18" viewable)
- 4MB 3-D 64-Bit Graphics
- 6.4GB 10ms Ultra ATA Hard Drive
- 12X min/24X max CD-ROM & 3.5" Diskette Drives
- Ensoniq Wavetable Audio
- ▸ **Boston Acoustics MicroMedia 3-Piece Speaker System**
- TelePath Modem *for Windows*, with x2 Technology**
- G-Series Mid-Tower Case
- 104+ Keyboard & MS IntelliMouse
- MS Windows 95
- Home Software Titles
- MMX Technology-Enhanced Software
- Gateway Gold Service & Support for G-Series PCs

$2999 As low as× $104/mo.

G6-300XL

- Intel 300MHz **Pentium II** Processor with 512K Cache
- 64MB DRAM
- ▸ **EV900 .26 Screen Pitch 19" Monitor** (18" viewable)
- 4MB 3-D 64-Bit Graphics
- TV/FM Tuner Card
- 8GB 8.5ms Ultra ATA Hard Drive
- ▸ **DVD-ROM Drive & DVD Decoder Card**
- 3.5" Diskette Drive
- Ensoniq Wavetable Audio
- ▸ **Boston Acoustics MicroMedia 3-Piece Speaker System**
- TelePath Modem *for Windows* with x2 Technology**
- G-Series Tower Case
- 104+ Keyboard & MS IntelliMouse
- MS Windows 95
- Home Software Titles
- MMX Technology-Enhanced Software
- Gateway Gold Service & Support for G-Series PCs

$3799 As low as× $132/mo.

Gateway Extras

(Some items only available to new or existing Gateway customers or with the purchase of a system.)

- Epson® Stylus® COLOR 400 Ink Jet Printer **$199**
- MS SideWinder™ 3D Pro Joystick **$59**
- Education Software Bundle Grades K-3 or Grades 4-8 **$99** (each)

Please call for current pricing on RAM and other upgrades.

**On-site service is available to most locations in the continental United States, Alaska, Hawaii, Puerto Rico and Canada after you and your Gateway technician determine an on-site visit is necessary. On-site service is provided by PC Technology Services, Inc. On-site is not available for any monitor, mouse, keyboard, E-1000 PC or portable system. Write or call for a free copy of the on-site service agreement.*

MMX™ intel inside pentium® II PROCESSOR

GATEWAY2000 EASYPAY
LOW MONTHLY PAYMENTS
Call for details about how you can receive Quicken® Deluxe 6.0.

GATEWAY2000
"You've got a friend in the business."®

800-846-2062

www.gateway.com

G-Series Multimedia PCs For The Home

Barn Burnin' Values

Get more for your money with GATEWAY™ PCs!

Gateway G-Series Multimedia *PC*

G6-266 BEST BUY

- Intel® 266MHz **Pentium® II** Processor with 512K Cache
- 64MB DRAM
- **EV900 .26 Screen Pitch 19" Monitor** (18" viewable)
- 4MB 3-D 64-Bit Graphics
- 6.4GB 10ms Ultra ATA Hard Drive
- 12X min/24X max CD-ROM & 3.5" Diskette Drives
- Ensoniq® Wavetable Audio
- **Boston Acoustics® MicroMedia™ 3-Piece Speaker System**
- TelePath® Modem *for Windows*, with x2™ Technology**
- G-Series Mid-Tower Case
- 104+ Keyboard & Microsoft® IntelliMouse™
- MS® Windows® 95
- Home Software Titles
- MMX™ Technology-Enhanced Software
- Gateway Gold™ Service & Support for G-Series PCs

$2999 As low as✕ $104/mo.

Gateway GP-Series Professional *PC*

GP6-266 BEST BUY

- Intel 266MHz **Pentium II** Processor with 512K Cache
- 64MB DRAM
- **EV900 .26 Screen Pitch 19" Monitor** (18" viewable)
- 4MB 3-D 64-Bit Graphics
- 6.4GB 10ms Ultra ATA Hard Drive
- 12X min/24X max CD-ROM & 3.5" Diskette Drives
- GP-Series Mid-Tower Case
- 104+ Keyboard & MS IntelliMouse
- MS Windows 95
- MS Office 97, Small Business Edition plus Encarta® 97
- Gateway Gold Service & Support for GP-Series PCs

$2899 Business Lease† $107/mo.

Please call for other configurations. We custom build each GATEWAY 2000® system to your specifications.

Gateway Destination™ Big Screen *PC/TV*

D5-200 BEST BUY

- Intel 200MHz Pentium® Processor with MMX Technology
- 32MB SDRAM
- 512K Pipelined Burst Cache
- Destination 31" VGA Monitor
- 2MB Graphics Accelerator with Cable-Ready TV Tuner
- 4GB 11ms Ultra ATA Hard Drive
- **DVD-ROM Drive & DVD Decoder Card**
- 3.5" Diskette Drive
- Ensoniq Wavetable Audio
- **Boston Acoustics MicroMedia 3-Piece Speaker System**
- TelePath Modem *for Windows* with x2 Technology**
- 7-Bay Charcoal-Colored PC Case
- Wireless Keyboard w/ Integrated EZ Pad® Pointing Device
- Wireless Field Mouse® Remote
- MS Windows 95
- Home Software Titles
- Gateway Gold Service & Support◆ for Big Screen PC/TVs

$2999 As low as✕ $104/mo.

Gateway Solo™ Portable *PC*

9100XL BEST BUY

- **13.3" XGA TFT Color Display**
- Intel 233MHz Pentium Processor with MMX Technology
- 64MB SDRAM (expandable to 192MB)
- 256K Pipelined Burst Cache
- **4MB EDO Video RAM (1280 x 1024 external)**
- **Removable Combo 6X min/11X max CD-ROM & 3.5" Diskette Drive**
- USB Ports & Zoomed Video
- NTSC/PAL Video Input & Output
- 5GB Hard Drive
- Premium 16-Bit Wavetable Sound & Stereo Speakers
- PCMCIA Modem with x2 Technology**
- Two 12-Cell Lithium Ion Batteries & AC Pack
- 88-Key MS Windows 95 Keyboard
- EZ Pad Pointing Device
- Executive Carrying Case
- Gateway Solo Mini Docking Station
- MS Windows 95
- MS Office 97, Small Business Edition plus Encarta 97
- Gateway Gold Service & Support for Portable PCs

$5899 As low as✕ $205/mo.

GSA Schedule # GS-35F-4565G

Toll Free from Canada
800-846-3609

Toll Free from Puerto Rico
800-846-3613

GATEWAY2000

"You've got a friend in the business."®

800-846-2062

www.gateway.com

MMX™ intel inside pentium® II PROCESSOR

610 Gateway Drive • P.O. Box 2000 • N. Sioux City, SD 57049-2000 • Phone 605-232-2000
TDD 800-846-1778 • Fax 605-232-2023 • FaxBack® 800-846-4526 • International FaxBack Access 605-232-2561
Component Add-On Sales 800-846-2080 • Sales Hours: 7am-10pm Weekdays, 8am-8pm Saturdays & Sundays (CT)

© 1997 Gateway 2000, Inc. GATEWAY 2000, black-and-white spot design, CrystalScan, EZ Pad, Field Mouse, "G" logo, TelePath and "You've got a friend in the business" slogan are registered trademarks, and Destination, GATEWAY, Gateway Gold, Kid's BackPack and Gateway Solo are trademarks of Gateway 2000, Inc. Not all Gateway E-Series PCs, NS Series servers, Destination systems, G-Series PCs and GP-Series PCs contain the Pentium II processor. The Gateway Solo PC does not contain the Pentium II processor. The Intel Inside Logo, Intel, IMM and Pentium are registered trademarks, and MMX is a trademark of Intel Corporation. All other brands and product names are trademarks or registered trademarks of their respective companies. All prices and configurations are subject to change without notice or obligation. Prices do not include shipping or applicable sales tax. Many Gateway 2000 products are custom engineered to Gateway 2000 specifications, which may vary from the retail versions of the software and/or hardware in functionality, performance or compatibility. ✕Financing available on approved credit issued and administered by MBNA America® Bank, N.A. Payments based on 36-month term at an Annual Percentage Rate as low as 14.9%. †Leasing arranged by independent leasing companies to qualified commercial customers. Lease payments based on 36-month term. Lease terms subject to change without notice or obligation.

PC Computing

VICE PRESIDENT, PUBLISHER Chris Dobbrow

SALES MANAGEMENT

NATIONAL ASSOCIATE PUBLISHER Sloan Seymour, (212) 503-4830

NATIONAL AD DIRECTOR Lucy Wohltman, (415) 547-8073

ADVERTISING COORDINATOR David McCaman, (415) 547-8031

SALES COORDINATOR Richard McNees

SALES ASSISTANTS Becky Barnhill, Loreen Bernardini, Jennifer Crandell, Oryan Ferguson, Kimberley Klevstad, Sandy Marciniak, Aida Rodriguez

ADVERTISING SALES OFFICES

NEW ENGLAND

Etienne Katz, District Sales Representative, (617) 393-3069
10 Presidents Landing, Fifth Floor, Medford, MA 02155

Laura Mancl, Account Executive, (415) 547-8068

MID-ATLANTIC

Thomas Koletas, District Manager, (212) 503-4907
One Park Ave., New York, NY 10016

Kerry Barlas, Senior Account Executive, (212) 503-5640

MIDWEST

Craig Westcott, District Manager, (312) 214-7333
150 North Wacker Dr., Suite 2500, Chicago, IL 60606

Spencer Lee, Account Executive, (415) 547-8065

SOUTHEAST

Bryan Shepard, District Sales Manager, (214) 360-5745
5956 Sherry Lane, Suite 625, Dallas, TX 75225

Samantha Ettus, Senior Account Executive, (212) 503-5009

SOUTHWEST AND LOS ANGELES

David Lynn, Southwest Regional Manager, (714) 852-5912
18301 Von Karman Ave., Suite 330, Irvine, CA 92715

Vanessa Tormey, Account Executive, (415) 547-8066

NORTHWEST AND UTAH

Kelly Reade, Regional Sales Manager, (415) 547-8061
50 Beale St., 13th Floor, San Francisco, CA 94105

Jennifer Lambert, Account Executive, (415) 547-8070

SAN JOSE

Monica Sembler, District Sales Manager, (415) 547-8052
50 Beale St., 13th Floor, San Francisco, CA 94105

Stacey Levy, District Sales Manager, (415) 547-8041
50 Beale St., 13th Floor, San Francisco, CA 94105

Alex Gitter, Account Executive, (415) 547-8072

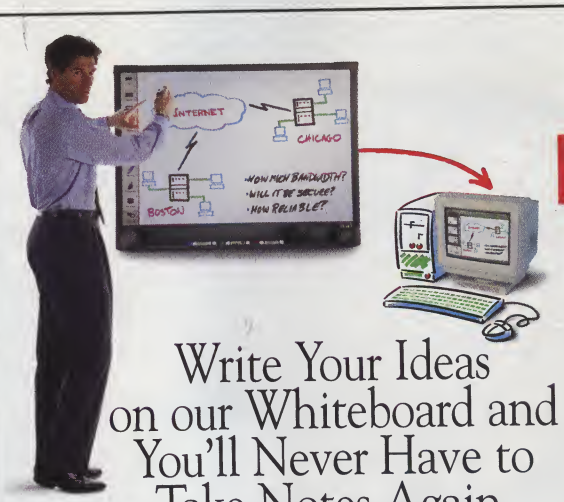
Courtney Coughlin, Account Executive, (415) 547-8575

MARKETPLACE SALES OFFICE

Ziff-Davis Inc., (800) 825-4237

Permission and Reprints Material in this publication may not be reproduced in any form without permission. Written requests for permission should be addressed to Chantal Tucker, Ziff-Davis Inc., One Park Ave., New York, NY 10016; or faxed to (212) 503-5475. For price quotes on reprints, please contact Ziff-Davis Reprints toll-free at (800) 825-4237. Printed in the U.S.A. Canadian GST registration number is 14049 6720 RT.

The Audit Bureau



ibid.

The Whiteboard That Connects To Your PC

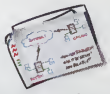
Write Your Ideas on our Whiteboard and You'll Never Have to Take Notes Again.

Everything you jot down on an Ibid whiteboard is saved to your PC. Then you can print it, e-mail it or send it as a fax.

You can even use Ibid to collaborate with remote participants in real time over the Internet using data-conferencing software. Ibid runs on Microsoft's Windows® 95, NT and 3.x operating systems. It comes in three sizes to fit any cubicle, office or conference room. And it's easy to install and use. Ibid, starting at just **$499.**

It's going to make communicating easier and more effective than ever. Call your computer dealer to see Ibid for yourself. Or contact us at 1-888-700-4243 or www.microtouch.com/ibid.


Print copies of meeting notes


Email whiteboard sketches


Teleconference with remote participants

MicroTouch.
Business Products Division

© MicroTouch Systems, Inc. All rights reserved. MicroTouch is a registered trademark and Ibid and the MicroTouch logo are trademarks of MicroTouch Systems, Inc. Microsoft is a registered trademark and Windows® is a trademark of Microsoft Corporation, Inc. All other company, brand or product names are registered trademarks of their respective holders.

Circle 245 on reader service card.

"YOUR FREE BULLETIN BOARD SYSTEM KNOCKED MY SOCKS OFF"

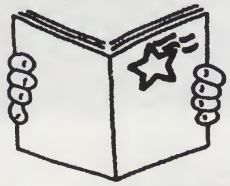
To access the Consumer Information Catalog and more than 250 helpful federal publications, use your communications software to dial **(202) 208-7679**. Or, e-mail the message "SEND INFO" to cic.info@pueblo.gsa.gov for Internet directions. Either way, keep your shoes on.



A public service of this publication and the Consumer Information Center of the U.S. General Services Administration

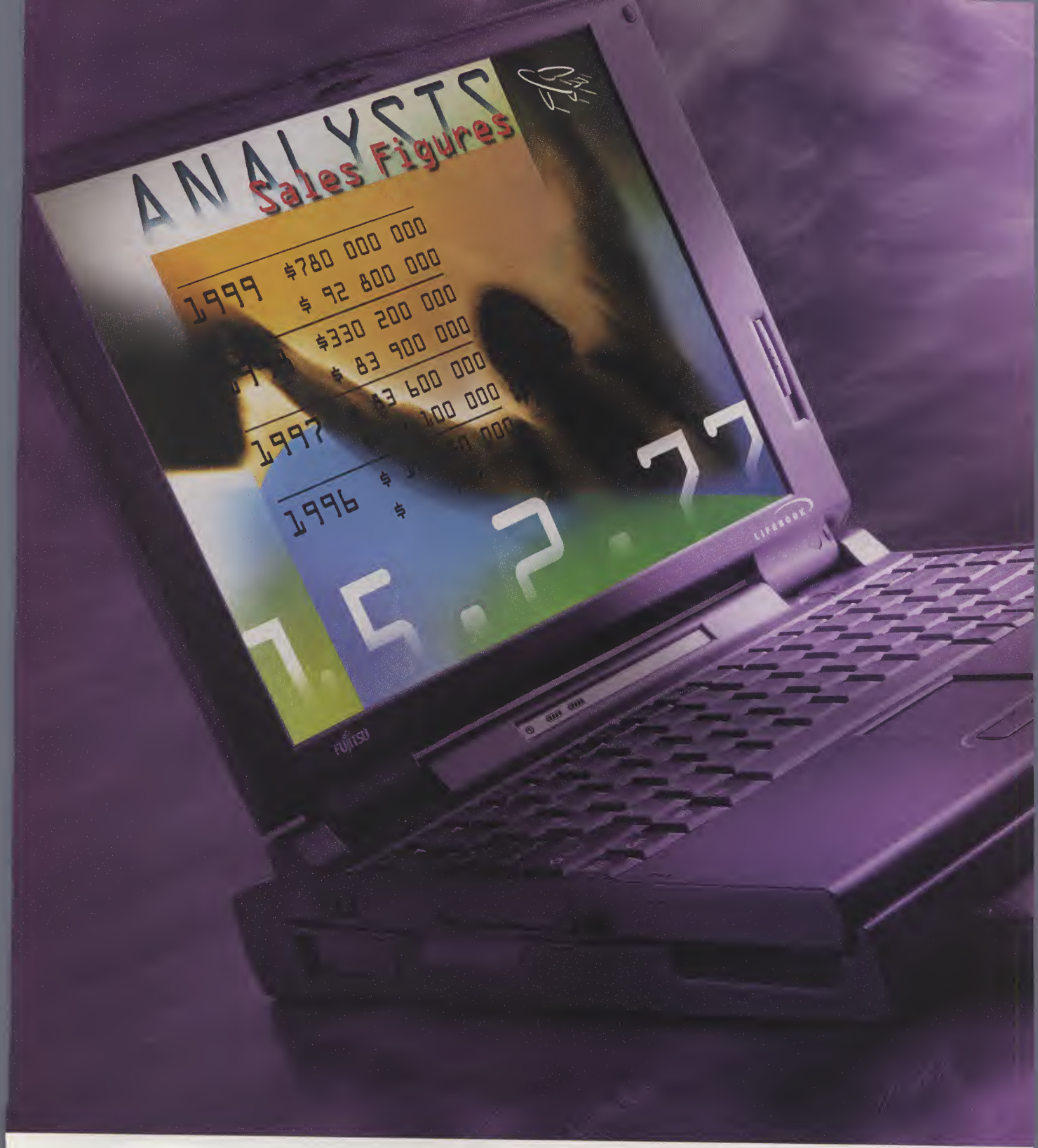
---

This could be a best seller. But it's free.



You can't buy the Consumer Information Catalog anywhere. But you can send for it, free! It's your guide to more than 200 free or low-cost government publications about getting federal benefits, finding jobs, staying healthy, and more. The Catalog is free. The information is priceless. Send name and address to:

Consumer Information Center
Department BEST, Pueblo, Colorado 81009



MMX™ intel inside pentium® PROCESSOR

FOR MORE INFO, CALL 1-888-4-ON-THE-GO, ext. FA11,
visit www.fujitsu-pc.com or get a QuikFacts fax @ 1-800-936-5209.

Circle 158 on reader service card.

LifeBook, Fujitsu and the Fujitsu logo are trademarks of Fujitsu Ltd. Intel and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. Microsoft and Windows are registered trademarks of Microsoft Corporation. All other trademarks are property of their respective companies. © 1997 Fujitsu PC Corporation. All rights reserved.



WE MAKE SURE 99.999% OF THE PIXELS IN OUR SCREENS ARE IN PERFECT WORKING ORDER.

It's that last .001%

THAT KEEP US UP AT NIGHT.

You wouldn't think a few wayward pixels would be anything to lose sleep over. After all, every LifeBook™ screen contains more than half-a-million of those tiny liquid crystals.

But then, you haven't met the folks in Fujitsu's Quality Control Center.

They don't rest until every square millimeter of every screen has been tested and scrutinized. Brightness, clarity, quality—our team analyzes six different parameters. Then, just to be sure, they run through the testing procedure all over again.

The result? Text is easier to read. Graphics are richer, and images more lifelike. A LifeBook screen is sharper, clearer, brighter—and it stays just as vivid for years to come. Working on your notebook becomes less of an eye strain. And more of a pleasure.

Our fanatical drive for quality and reliability doesn't stop with the screen, either. We're just as tenacious when it comes to hard drives, keyboards, motherboards, and all the other components that go into our notebooks. With all that, it's surprising that we ever get to sleep at all. But when we do, you can bet we dream in high-resolution color.

FUJITSU

FUJITSU PC CORPORATION

Built *for* Humans.

FUJITSU ACCESSORIES

Designed for Microsoft® Windows® 95

WWW.pccomputing.com

Best of the Web at Your Fingertips

Why bother with the Microsoft manual when you have the most comprehensive insider's guide to Windows 95, Windows 98, and Windows NT 4.0 right here? Get online for instant links to essential utility upgrades that'll shift your system's performance into the fast lane. And be sure to check the latest 1,001 downloads, send e-mail to your favorite editor, and enter our sweepstakes giveaway—all at www.pccomputing.com.

Essential Excel Tricks

If you use Microsoft Office, you've got to bookmark www.officecomputing.com. In the latest edition of *Office Computing*, learn how to build a custom Excel utility in Visual Basic for Applications that tracks and records billable time. Plus learn how to use FTP from within any Office component; we help you test your skills online.

Office Computing
FROM THE EDITORS OF PC COMPUTING

1,001 Downloads: October Update



We can fill your hard drive with freebies just as fast as your Net connection allows, and this month we added a handful of gems to our more than 1,001 downloads. Grab a copy of Henning's Stick Up Notes, a nifty Windows 95 interface utility, or improve your Net communications with Hilgraeve's HyperTerminal Private Edition 3.0. Plus enjoy tons of games, home applications, and a barrelful of Internet files. Better buy more storage now.

Inter.net

Inter.net

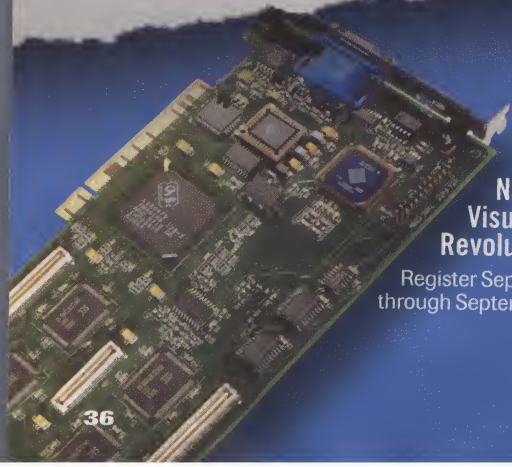
Keep up with the latest and greatest Internet trends, tools, and wacky Web sites with *PC Computing*'s Inter.net section. Find links to the best Web publishing applications with Cool Tools, your guide to the top Net products. Or take a walk on the wild side of the Web with *PC Computing*'s Net Kahuna, Ron White.

Inside Information

Read stories from next month's issue before it arrives in your mailbox—surf to www.pccomputing.com each week.

WHERE CAN YOU FIND PC COMPUTING ONLINE?

Visit the *PC Computing* home page daily on the Web by pointing your browser to www.pccomputing.com. You'll find our discussion forums at www.pccomputing.com/bbs/. Or e-mail letters directly to the Editor at PCCmail@zd.com.



Sweepstakes Double Shot!

Every two weeks we're giving away a great new prize, but you can't win unless you enter....

Number Nine Visual Technology Revolution 3D video card
Register September 8 through September 22

PowerComputing fully loaded desktop PC
Register September 22 through October 6

The sweepstakes is open to U.S. residents over 18 years old who have access to the World Wide Web as of September 1, 1997. Entry form and complete sweepstakes rules are online at www.pccomputing.com. No purchase necessary.



SIX KEY REASONS TO MAKE YOUR PAPER FORMS ELECTRONIC.

1 INSTANT FORMS: *Scan in existing forms for easy conversion, pick pre-built form components from a scrapbook or create custom forms using powerful design tools.*

2 EASY TO FILL OUT: *Filling out electronic forms is easy. Just tab and type. Enter data quickly from a list of drop down choices.*

3 DATABASE INTEGRATION: *Automatically builds a database for each form. Search and sort records. Supports popular database formats like Access, dBASE, Paradox and others. Supports OLE 2.0.*



4 SPELL CHECKING: *Electronic forms give you perfect results by spell checking your forms automatically. Plus you can print, fax or e-mail your forms to others.*

5 BUILT-IN CALCULATIONS: *Electronic forms can create calculations automatically or just drag and drop using over 35 Excel-like calculations.*

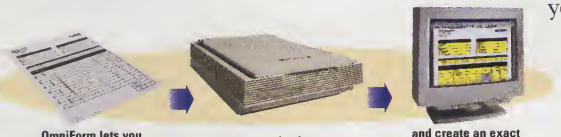
6 HELP: *If you're not sure what to put in a particular field, don't worry. Each field can have a help message that will assist you in filling out the form.*

OmniForm GIVES YOU EXACT ELECTRONIC DUPLICATES OF YOUR PAPER FORMS IN SECONDS.

Don't put up with paper forms any longer. Using Caere's proven, award-winning OmniPage® OCR technology, OmniForm® lets you scan and convert existing paper forms into electronic forms in seconds. The result? Total electronic duplicates you can see on your computer screen, edit, fill out and even spell check. To enter or change data, you just tab and type. It's that easy!

With OmniForm, you can print and fax your forms, or e-mail them throughout your company. And it gives you a simple, but powerful tool set to edit your forms, change fonts, add graphics or design completely new forms from scratch.

OmniForm also performs automatic calculations, validates entries and creates databases. So the information you get from your forms works a lot harder for you, not the other way around.



Want to add users? OmniForm Filler lets even more people use your electronic forms for a small additional cost.

Why deal with paper when you can save so much time and hassle using OmniForm? Call or visit a reseller for your copy today.

caere®
www.caere.com



Now only $149*

800-654-1187
extension 205

Available for Windows 95, Windows 3.1, Windows NT and Macintosh

*Suggested price US dollars—subject to change without notice. Offer valid in US and Canada only. Caere, the Caere logo, OmniPage and OmniForm are registered trademarks of Caere Corporation. All other names are the property of their respective holders. © 1997.

Circle 261 on reader service card.



It's New Year's Eve, 1998.

The Jensen & Miller families resolve to get their finances under control.

Margie & Jim Miller balance their checkbook.

Margie & Jim balance their checkbook.

Margie & Jim balance their checkbook.

Margie & Jim balance their checkbook.

Margie & Jim balance their checkbook.

Margie & Jim balance their checkbook.

Margie & Jim balance their checkbook

Julia finds the perfect spot to build a new home.



Daughter Patrece skips a grade. College is closer than Julia & Harry thought.



Julia & Harry increas their 401k contributio by $50 per paycheck.

Julia & Harry Jensen get Microsoft Money 98 Financial Suite. They set goals and make plans.

The Monthly Reports tell them they're eating out more than they had budgeted for. Harry learns to cook.



She finds a low-interest land loan through Money Insider. Harry believes Julia is a genius.

Patrece's soccer team wins divisionals. Julia & Harry fly to the nationals.

Advisor FYI encourages Harry to pay off his higher interest-rate loan before his others. He claims he was going to anyway.

Harry starts online trading with Microsoft Investor. Julia supposes geniu runs in the family.

Connect time charges may apply. © 1997 Microsoft Corporation. All rights reserved. Microsoft and *Where do you want to go today?* are registered trademarks and Advisor FYI and Money Insider are trademarks of Microsoft Corporation.

Microsoft
Where do you want to go today?®

Margie & Jim balance their checkbook.

Margie & Jim balance their checkbook.

Margie & Jim balance their checkbook.

Margie & Jim balance their checkbook.

Margie & Jim balance their checkbook.

Margie & Jim balance their checkbook.

Margie & Jim balance their checkbook.

Harry buys an old sports car to restore. Julia lets him.

They pay off their credit card debt—pay cash for Champagne.

Julia & Harry take Patrece to a dude ranch for a two-week vacation.

Harry's sports car is fully restored. Julia sells minivan.







The family moves into their newly completed home. Patrece can see the lake from her room.

Harry beats the S&P 500. Car pool is tired of hearing about it.

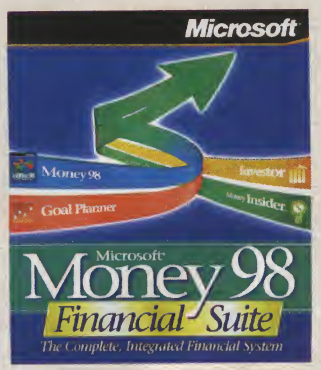
Patrece learns how to find a college scholarship through Money Insider, and enrolls in Harry's alma mater.



Julia and Harry spend their second honeymoon sailing the Mediterranean and planning their next 20 years.

Microsoft® Money 98 Financial Suite elevates you from the monthly exercise of checkbook balancing to take control of your finances and live life as you envision it. Begin by charting your financial future, and stay on track with Goal Planner. Monthly Reports give you an automatically generated overview of your activities and transactions. Personalized guidance from new Advisor FYI™ delivers tips to help you avoid common mistakes. Money Insider™ (moneyinsider.msn.com) gives you online access to financial experts so your decisions will be fully informed. Track your portfolio, trade online, and research potential investments with Microsoft Investor. These components work together so your finances are simultaneously updated with each entry. You know what the most important things in life are. Now Money 98 Financial Suite can help get you there.

For a free 90-day trial of Money 98 Financial Suite, and to see how Julia and Harry did it, visit www.microsoft.com/money/trymoney



HEWLETT® PACKARD





The right paper can save more than your letters.

Introducing a full line of paper. Works with your HP LaserJet printer. Extra white, heavy weight. Designed specifically for the task of printing. Give your letters a reason to jump. Call 1-800-471-4701 for a free sample pack* or a dealer near you. www.ljsupplies.com/save

HP PAPER · ALWAYS CLEAR, ALWAYS SHARP

COMPETITIVE EDGE

How to Get Ahead

I enjoyed reading (and putting to use) your helpful article "How to Use Technology to Get Ahead, Torture Your Enemies, and Destroy the Competition . . . Without Getting Caught!" (April, page 202). If system administrators are dumb enough to give you access to certain areas, by all means use this to your advantage—but cover your tracks!

PAUL FERRARA
VIA THE INTERNET

Right and Wrong

"Wrong" sounds right to me (Paul Somerson, August, page 85). I worked at WordPerfect when it was acquired by Novell. One of the biggest blunders Novell made was pushing pervasive computing, or "how to network everything that plugs into an electrical outlet." Meanwhile, Microsoft was working on how to better integrate the Internet into its applications and operating systems. Any wonder why Novell went through so many layoffs?

BRIAN HASKELL
VIA THE INTERNET

Smart Alternative

On the whole, I concur with Paul Somerson's column "Wrong" (August). I have one comment, though. Smart cards are a good idea, but what if you didn't have to carry a card at all? What if you could stand in front of a device for a couple of seconds and have it identify you? In the time you'd spend finding your smart card, this device would take your picture. That is what Sensar is working on. We believe that we can eliminate the need for cards altogether.

JOE GREEN
SYSTEMS AND NETWORK TECHNICIAN
VIA THE INTERNET

Tamagotchi Fever

Paul Somerson almost got it right in "Wrong" (August), but he missed on number seven—Tamagotchi cyberpets will be huge in the United States. Want proof? Try to find a kid under 13 without a Tamagotchi cyberpet. Where I'm from it's impossible. Otherwise, his prescience is close to perfection. Eight out of nine ain't bad.

IRA M. STONE
VIA THE INTERNET

Fortuna Alliance

I'm dismayed that old, false rumors about the company I represent—Fortuna Alliance II—are still being circulated ("Cyberscam," Taylor & Jerome, August, page 87). On February 24, 1997, Fortuna Alliance II and the Federal Trade Commission (FTC) agreed to a settlement. As a result of the settlement, the court dropped all charges against Fortuna Alliance. The company hasn't been shut down. It doesn't run a pyramid scheme and never did.

SANDY PRATER
VIA THE INTERNET

ACCORDING TO THE FTC, it has not dropped the charges against Fortuna. The court order that accompanied the settlement prohibited Fortuna from continuing certain business practices—including operating what the FTC still believes was a pyramid scheme—and making trumped-up claims about members' earnings potential. Fortuna Alliance II may still be in business, but the FTC says if it's operating under the same structure as the original Alliance it's violating the injunction—and the law.

What Common Sense?

In their August column, Taylor & Jerome write that people need to use common sense to avoid Internet scams ("Cyberscam," page 87). This is so true and applies to all kinds of scams, even those run by telemarketers. No matter how much people are warned, they just don't get it.

BRYAN BENNETT
VIA THE INTERNET

Proud Papa

I agree with "Your PC, Your Way" (John C. Dvorak, August, page 89). Even though my machine is nothing to scream about, I built it myself—it's my baby. Dvorak said the FCC may be planning to ban homemade machines. This doesn't make sense to me—no more sense than limiting data-transfer rates over analog phone lines. Am I missing something?

MICHAEL FAZ
VIA THE INTERNET

THE PROBLEM IS with the frequency of the crystals used to clock the chip. The thinking at the FCC is that these frequencies are impinging on various radio frequencies, and the people who build their own systems won't adequately shield the machines.

Image Conscious

Why would John Dvorak pay hundreds of dollars more for a 17-inch monitor ("Your PC, Your Way," August)? It seems to me you could justify the cost only if you do desktop publishing or use graphics-intensive programs. Why not buy a roomier hard drive or a higher-powered system?

DAN ROSENHECK
VIA THE INTERNET

I ACTUALLY RECOMMEND a 21-inch monitor and only suggested a 17-inch monitor so people can save money. And, true, you save even more money with a 14- or 15-inch monitor, but the cost to one's sanity—and

HEWLETT® PACKARD

© 1997 Hewlett-Packard Company





One small step for man. One giant leap for the printed page.

HP LaserJet Toner Cartridges. Low cost per page. Lifetime guarantee. A crisp, sharp landing for each and every letter. Don't compromise your mission with anything less. www.ljsupplies.com/leap

HP PLANET PARTNERS
LaserJet Toner Cartridge Recycling Program

HP LASERJET TONER CARTRIDGES • ALWAYS CLEAR, ALWAYS SHARP

eyes—is extreme: There isn't enough space on a smaller screen to have more than one window open. Unlike with a hard drive, you keep a monitor for a long time and transfer it from system to system. **JCD**

Time Well Spent

I found I can build a PC in less time than I spend on hold with tech support ("Your PC, Your Way," August). John Dvorak's column had great advice. I'd like to try a case from PC Power & Cooling. Where can I find the company?

CRAIG NOLD
VIA THE INTERNET

START WITH PC Power & Cooling's Web site, www.pcpowercooling.com.

Software Catch-22

I enjoyed "Your PC, Your Way" (August), but John Dvorak left out one important issue: the cost of software. You can beat PC makers on the price of hardware by building your own system, but they frequently bundle software at a discount unattainable by us mere mortals.

MARK A. DURHAM
VIA THE INTERNET

Learning Experience

I've learned so much from the mistakes I've made when upgrading my PC, so I look forward to the challenge of building my own ("Your PC, Your Way"). Once again, however, the money issue arises, mixed with anxiety. Fear clutches me when I think of *myself* surrounded by $1,000 worth of computer parts only to find that the rotten thing won't boot. John Dvorak's gotcha list hit the mark. You really can't master your PC until you've cracked open the hood.

WENDELL J. GRAYSON
VIA THE INTERNET

Simplicity, Please

I don't want to integrate the Internet with the Windows shell. I like it just where it is: accessible via a browser, separate from the rest of my system ("Top-Secret Windows," August, page 154). People with average computers can't afford the overhead that Microsoft Internet Explorer 4.0 demands. We want a fast, reliable client that supports new and emerging technologies without eating up half of our system's resources.

RYAN J. KIRK
VIA THE INTERNET

Give Me an "M. . ."

Your Top 10 Predictions in "Top-Secret Windows" (August, page 172) are interesting. But before you hurt yourselves doing high kicks in the Microsoft cheering section, consider that prediction number six—Internet Explorer will surpass Netscape Navigator in market share—is probably bogus. You say, "Do the math." OK, but instead of counting the number of units *sold*, let's count the number of units *used*. Just because Internet Explorer is included with every PC sold doesn't mean it's being used.

GREG PRIOR
VIA THE INTERNET

Urban Legends

In response to Ron White's challenge at the end of his Net Kahuna column ("Legends of the Web," August, page 324), the fake urban legend is the one about the man under the bridge with $100,000, right? Very fun column. I enjoyed all the sites, particularly www.snopes.com.

MARTIN BLACKWELL
VIA THE INTERNET

BINGO! You're the first person to guess correctly. If there were a prize for this, you'd get it, but there isn't.

Sharing Myths

Thanks for plugging my Computer Virus Myths home page ("Legends of the Web"). I loved the way Ron White's column dealt with all the urban legends out there.

ROB ROSENBERGER
VIA THE INTERNET

HEY, YOU HAVE A COOL SITE doing a public service. No thanks needed.

Search-Off

In response to "Do Internet search engines find what you're looking for?" (Mail, August, page 42), automated search engines can't find what people are looking for because Webmasters add metatags and keywords to pages with the most commonly



When the end comes, send your toner cartridge to a better place.

It lived a long healthy life. It worked hard for you. Now's your chance to bid it a proper farewell. Introducing HP's Planet Partners—an easy, free recycling solution. Returned HP cartridges are converted into raw materials to be used in the manufacturing of everyday products. Packages and postage are provided for any quantity. Call 1-800-340-2445 for details. After all, why trash your old toner cartridges when you can give them eternal life?

www.ljsupplies.com/planetpartners

HEWLETT® PACKARD

searched words. They do it to drive traffic to these pages even though the words might have nothing to do with the site's content.

KONSTANTIN KHARITONOV
VIA THE INTERNET

Power Up

I've been successful with Internet search engines as long as I use the power search options (Mail, August, page 42). It'd be a major improvement if all search engines used standard symbols for AND, OR, NOT, multiple words, and so on. It's ridiculous to expect users to slog through page after page of instructions—and remember them all—just to come up with an accurate query.

ALBERT FRANZ
VIA COMPUSERVE

Web Crawling

Most Internet search engines don't find anything (Mail, August). They ought to be called Net directories, since many are simply databases of Web addresses—like old-fashioned card catalogs. There are only a few honest-to-goodness engines that actually go out and crawl the Web and Usenet groups, examining all published sites for keywords.

CHERISE KELLEY
VIA THE INTERNET

No More Golf

Taylor & Jerome touched on one of those topics that'll have a major impact on how small businesses connect, not only for start-up funding, but also for networking and marketing ("Profitable Insurrections," July, page 81). Cyberspace opens up more opportunities to do research, connect with more people, and market products to a wider audience than the old methods. We are no longer tied to the good old boy/girl network that forces us to endure senseless golf games and lunch at the club.

JOHN GULLEDGE
VIA THE INTERNET

NC Lies

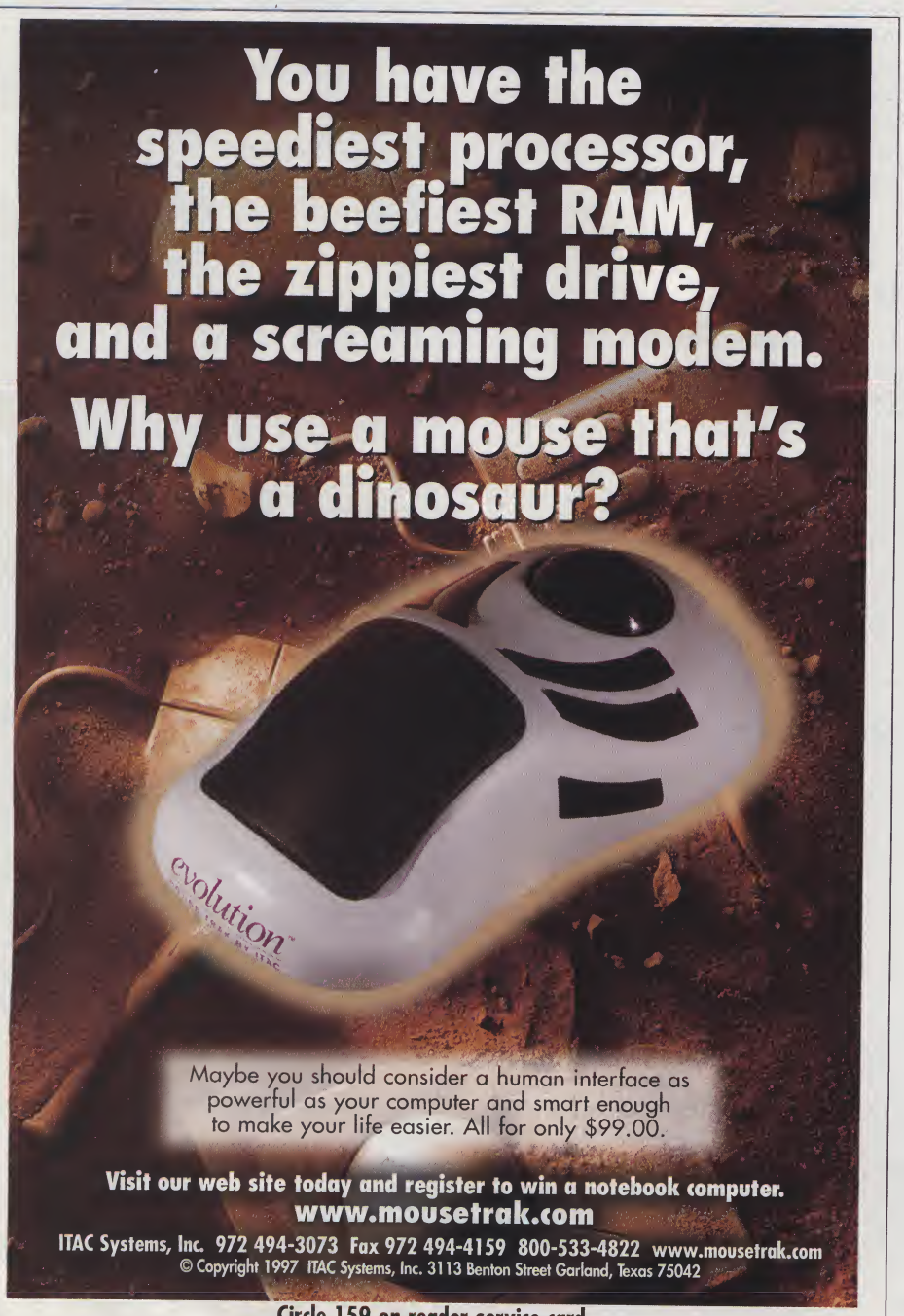
The argument for network computers is predicated on the supposed high cost of PCs ("Bull," Paul Somerson, June, page 81). Java is pushed by the same companies that push NCs, and the biggest argument for Java is cross-platform compatibility. But since the overwhelming majority of network computers are from Wintel, I'm not sure it's an issue any more real than the need for network computers. Is seeing a Sun or an Oracle NC on every desktop supposed to be more comforting than a Wintel box? Who are they kidding?

GARY ALSTON
VIA THE INTERNET

For the Record

Creative Labs' Creative PC-DVD features a Panasonic internal DVD drive ("Movies on Your Monitor," July, page 106).

SHOULD COMPANIES BE ALLOWED TO SPY ON EMPLOYEES' E-MAIL? DOES YOUR COMPANY SPY ON YOURS? Send your thoughts about this and other subjects to Mail, *PC Computing*, 50 Beale St., 13th Floor, San Francisco, CA 94105; or via the Internet to PCCmail@zd.com. Letters may be edited for length and clarity.



Circle 159 on reader service card.



SCSI for your desktop.

BONE rattling throughput.

Do more. Faster.

Connect to a

SCSI hard drive.

To get the most out of your PC, you've got to get the most through it. Which is why you need to connect to a SCSI (pronounced scuzzy) hard drive with the world's most popular SCSI card from Adaptec.® Together, they give you pipe-opening 40MB/sec maximum throughput. Considerably more than the 16.7MB/sec in standard-issue PCs. So applications launch faster. Documents save faster. And you get the full benefits of true multi-tasking. Ask for SCSI on your next PC. And watch it kick up some dirt.

SCSI makes you more productive.

2.8MB/sec	Without SCSI
6.3MB/sec	With SCSI

Hard Disk Average Throughput.†

To see the proof, visit www.adaptec.com/dt/pcc.*

We move the information that moves your world.™

adaptec®

*For information by fax, dial 1-408-957-7150. Request document no. 11460. †SCSI drive: Western Digital WDE2170 with Adaptec AHA®-2940UW SCSI card. EIDE drive: Seagate ST52520A. Dell Pentium Pro 200 PCI, 32MB RAM, Intel chip set 82371SB PCI bus master IDE controller, Windows NT® Workstation 4.0, ATI graphics accelerator Mach 64, Adaptec Threadmark™ benchmark 2.0. ©1997 Adaptec, Inc. All rights reserved. Adaptec, Threadmark, AHA, the Adaptec logo and tagline are trademarks of Adaptec, Inc. and may be registered in some jurisdictions. Windows NT is a trademark of Microsoft Corporation, used under license. All other trademarks belong to their respective owners. Always drive responsibly.



Tim said, "100% Pure Java™ programs give us the latest data from our intranet. So we can all work faster. We can have our products in the stores sooner."

"And we can kick our rivals in the bottom!" said the boss.

Tim and the boss laughed. "Ha, Ha, Ha!"

© 1997 Sun Microsystems, Inc. All rights reserved. Sun, Sun Microsystems, the Sun logo, Java, 100% Pure Java and the 100% Pure Java logo are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries.

mul·ti·plat·form ac·cess

to·tal da·ta shar·ing

en·hanced pro·duc·tiv·i·ty



Pure and Simple.

To see how leading banks, freight carriers and telecom firms use 100% Pure Java, visit **http://java.sun.com/100percent/benefits.html** *or simply call us at* **1-800-JAVASOFT.**

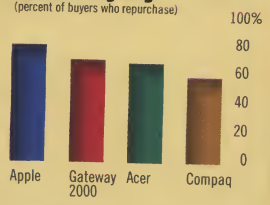
BREWED BY

Sun microsystems

Circle 294 on reader service card.

Pulse

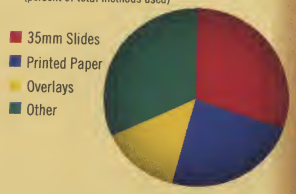
Brand Loyalty
(percent of buyers who repurchase)



SOURCE: COMPUTER INTELLIGENCE

Major Label: Despite rumors of buyouts and financial woes, Apple Computer still has excellent buying loyalty—81 percent of Mac users are repeat customers.

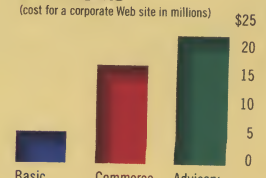
Presentation Style
(percent of total methods used)



SOURCE: IN FOCUS

Show It Retro: Even with all the projection panels and portable monitors around, most presentations are still done the old-fashioned way—projected or printed.

Site Cents
(cost for a corporate Web site in millions)



SOURCE: FORRESTER RESEARCH

Cash Out: Building a serious business Web site doesn't come cheap, especially if you want an advisory site—one that requires analysts and consultants.

JETSEND

The Network of the Future



Speak Easy: Let your hardware and operating systems mingle without worries. Hewlett-Packard's new JetSend standard promises to get peripherals talking.

You're 3,000 miles from the office and you have to give your annual presentation to the board of directors in 15 minutes. What if you need to make a couple of last-second changes and print out a new copy? Good luck trying to find a printer or network that will work with your notebook.

Getting a machine to talk to another device is a common communications breakdown—but not for long. Thanks to Hewlett-Packard's JetSend technology, all your networkable devices will soon be speaking the same language. JetSend breaks down every compatibility barrier you face, including disparate operating systems, networks, and devices. It aims to be the ubiquitous network protocol, and with industry support it just might work.

JetSend establishes a relationship for communication in the firmware of notebooks, printers, and other devices. Information can be shared over a parallel cable, an infrared port, or even the Internet.

Think you've seen something like this before? Maybe in the days of the forgotten Microsoft At Work initiative? Not quite. Microsoft sought a Microsoft-only solution, whereas Hewlett-Packard is creating an open standard and seeking partners in every corner of the technology and consumer industries. And the JetSend bandwagon is filling up fast. Heavy hitters such as Microsoft and Canon stand behind JetSend, and Windows 98 will incorporate the technology.

The first products that support JetSend will be office devices. The obvious candidates

UPDATES BEST BETS AND BARGAINS

SITE MANAGEMENT
Need to develop a Web site with many people responsible for content? Try Mortice Kern Systems' Web Integrity, at $15,000 per server or $499 per user. Contact Mortice Kern Systems at (800) 265-2797.
Reader Service No. 601

ONLINE TRAVEL
Be your own travel agent with United Connection, a free online travel-planning package that works with 500 airlines, 30,000 hotels, and 45 car rental agencies. Contact United Airlines at (800) 334-0300.
Reader Service No. 602

COLOR SCANNING
If you need big color on a small budget, Artec Ultimate's $149 ViewStation AS6E scanner hooks up to your parallel port and gives you 30 bits of color and great software. Contact Artec at (510) 440-1200.
Reader Service No. 603

POWER DOODLE
For simple publishing projects, check out $49 Windows Draw 6. It gives you a complete suite of tools to create greeting cards, newsletters, and maps. Contact Micrografx at (800) 676-3110.
Reader Service No. 604

PHOTO ©FPG. PHOTO ILLUSTRATION BY PETER ALAN GOULD.

are PCs, printers, scanners, digital cameras, and even digital whiteboards. Beyond the office? The sky's the limit. Perhaps one day you'll purchase a JetSend-enabled television, videophone, or VCR.

So how soon can you use JetSend to send a proposal to your client's laser printer across the country? Watch for JetSend-enabled products to hit the market in late November. Expect a slew of products from Hewlett-Packard, but also keep an eye on Sony, Canon, and other companies. Cost shouldn't be an issue either. Prices of devices that support JetSend should rise only slightly, if at all. The technology is simple, so most products won't require much extra memory or hardware to take advantage of it.

Hewlett-Packard's initiative is not without hurdles. You can take advantage of the technology only if both devices speak JetSend, so legacy devices won't be able to use it. And what's to stop consumer-electronics vendors from developing their own technology for similar tasks? Sun Microsystems recently announced Personal Java, a specification that'll let everyday consumer products—smartphones and mobile handheld computers—connect and share information. Will Personal Java compete with or complement JetSend? Stay tuned. But if Hewlett-Packard succeeds, JetSend could be the key to connect anything to everything. **KKC and RS**

Contributors to Pulse:
KYLA K. CARLSON, LIESL LA GRANGE NOBLE, *and* RICH SCHWERIN.
Edited by JACK LYON *and* JULIE POLITO.

Digital Double Shot

Why settle for digital still images or video when you can have both in one camera? **Canon's Optura** digital camera shoots **sharp digital video** in mini-DV format, and also stores high-resolution digital still photographs. Even with **advanced photography features** like a 14X optical zoom lens, recording images is as easy as pushing a button. **Show off your images** on a television monitor or port them to your desktop system via a screaming-fast Firewire connector. **JP**

Optura / Canon USA / (800) 653-2666 / $2,499 list price / *Reader Service No. 605*

LCD Projectors

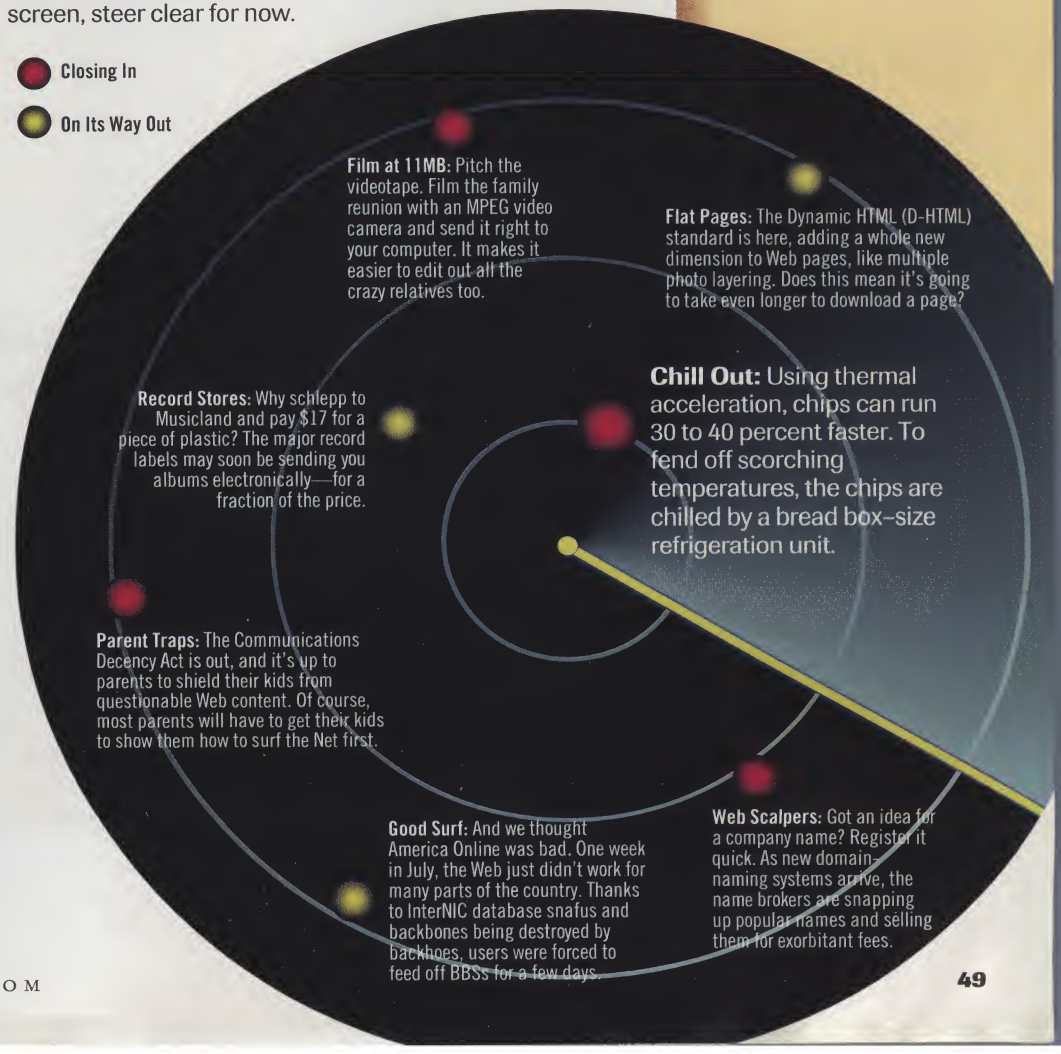
If you have a presentation to deliver, don't put it on a dinky desktop monitor. Make it larger than life with a multimedia LCD projector. Here are the least expensive multimedia LCD projectors we could find as of August 1.

Product	Price
Philips ProScreen 1200 *Microwarehouse* *(800) 780-5022*	$2,000
Panasonic MLP1000 *NECX Direct* *(800) 808-3375*	$2,230
Polaroid Polaview 10 *Computer Discount Warehouse* *(800) 886-4239*	$2,768
Polaroid Firefly *PC Mall* *(800) 863-3282*	$2,900
In Focus Systems LitePro 210 *CompUSA Direct* *(800) 332-4471*	$3,586

Reader Service Numbers: Microwarehouse, *606*; NECX Direct, *607*; Computer Discount Warehouse, *608*; PC Mall, *609*; CompUSA Direct, *610*.

RADAR ALREADY-TAKEN.COM, HOT STUFF

What's on the scope? If a blip is near or moving toward the middle of the radar screen, check it out. If it's moving off the screen, steer clear for now.



More Than Zero

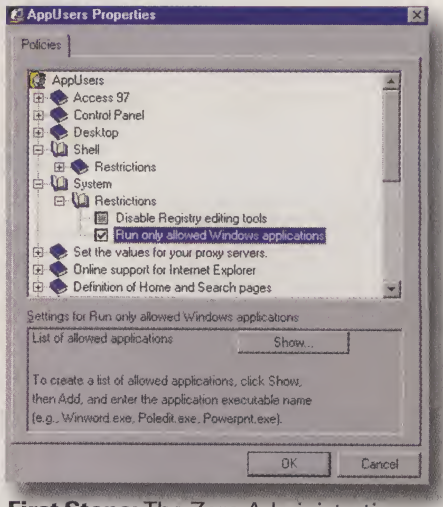
"Computers are too hard to set up, deploy, maintain, upgrade, and replace." That sobering summary of the PC industry, believe it or not, is taken directly from a Microsoft white paper. Of course Microsoft doesn't want you to replace your Pentiums with NetPCs running Java. On the contrary, the Windows development team wants you to wait until next year, when its Zero Administration Initiative is poised to kick into high gear.

The first pieces of Zero Administration Windows hit the Web recently, and they're not much to look at. Microsoft's Zero Administration Kits for Windows NT and Windows 95 are little more than templates for NT's daunting System Policy Editor. In fact, the documentation—a set of "best practices" for setting up workstations in an NT domain—is probably more valuable than the software itself.

Now is a good time to begin exploring policies, because nearly every aspect of Zero Administration Windows will be driven by central policies administered from an NT server. System policies don't have to strip power from end users, though. A policy-based network greatly simplifies computing for end users, taking the hassle out of installing and uninstalling applications or moving a working environment from one machine to another.

A broad assortment of future NT 5.0 technologies promises to make Windows easier for end users and administrators alike. The 5.0 version of NTFS, for example, will let users "virtualize" a C: drive on a server. Although the directory listing will look as though it's local, the files will be stored on one or more IntelliMirror servers with "single instance" storage for shared files to avoid wasting server space. All that server traffic will cause some initial performance hits, but once an application appears in a local workstation's cache, it should run as fast as if it were local.

When will the rest of the Zero Administration pieces appear? Don't look for them in the first beta of Windows NT 5.0. It will probably be early 1998 before the first usable betas appear, and some of the more ambitious pieces will undoubtedly slip into 1999 or beyond. **ED BOTT**



First Steps: The Zero Administration Kit for NT lets you lock a workstation into one of two restrictive templates.

NT TOOLS

MASTER YOUR DOMAINS

Simplify administration of complex NT domains with Trusted Enterprise Manager (TEM), from Master Design & Development. TEM lets administrators delegate rights to reset passwords, add or remove users from groups, and help users install new applications. A free evaluation copy is available from www.mddinc.com.

COMPLETE CONNECTIONS

Setting up remote access to an NT machine is difficult and expensive, right? Wrong. LapLink for Windows NT quickly transfers files and even allows remote control over Internet connections, modems, or a serial or parallel cable—all for $149. Get more details at www.travsoft.com.

PROXY UPDATE

If your NT-based network is connected to the Internet, check out Microsoft's Proxy Server 2.0. Unlike rival Web proxies, Microsoft's server software includes client drivers that let Windows users access the Internet using any Winsock program. New features include dynamic packet filtering and firewall functions normally found only in firewall products. A free evaluation version is available from www.microsoft.com/proxy.

BRIEFS NT NEWS AND TRENDS

NT 5.0 to Add FAT32

An irksome incompatibility between Windows NT and Windows 95 should vanish next year. Microsoft confirmed that Windows NT 5.0 will fully support the FAT32 disk format introduced in Windows 95 OEM Service Release 2. Don't look for FAT32 in an interim service pack for NT 4.0, however.

IIS Muscles Up

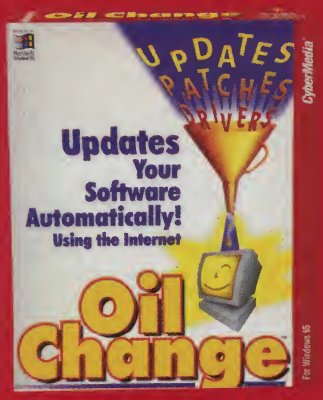
Aiming for an end-of-year release, Microsoft has delivered the first beta of Internet Information Server 4.0. Many new features are targeted at large organizations that host multiple Web sites on a single server or distribute a Web site across several servers. Also look for an early version of the Microsoft Management Console (scheduled to ship with NT 5.0).

Security Alert!

After vandals crashed Microsoft site www.microsoft.com twice in one week, a slew of new NT 4.0 security fixes appeared at ftp.microsoft.com/bussys/winnt/winnt-public/fixes/usa/nt40/hotfixes-postSP3. If you run a security-conscious NT-based Web site or Internet-connected LAN, check this site at least weekly for regular updates and patches.

For the easiest way to automatically update your PC, click this button!





Just click the Oil Change™ **Start** button and you've found the easiest way to update your software and hardware **automatically**. Oil Change locates new software updates and hardware drivers for your PC via the Internet. Simply select the updates you want and Oil Change will download and install them automatically. **It's that easy**. Oil Change finds everything from the latest software updates to the newest hardware drivers; it even updates over 400 computer games.

So, why waste time trying to find, download and install updates yourself? Get Oil Change. It's the **easiest** way to update your PC.

Pick up a copy today at your local retailer, or call 1.800.841.3539 x17 to order direct.
To download a free trial copy, visit our website at www.cybermedia.com/comp1

CYBERMEDIA®
MORE POWER TO YOU™

Circle 177 on reader service card.

Send a crying baby 3,000 miles
in under 2 minutes.

Because You Can.



©1997 Sony Electronics Inc. All rights reserved. Reproduction in whole or part without written permission is prohibited. Sony, the Sony logo and VAIO are registered trademarks of Sony. The VAIO Notebook, Sony Cell Phone and Sony All-in-One Printer are registered trademarks of Sony. Intel, MMX and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. Screen image is simulated. *Requires additional hardware and software. SOITA-07

MMX™ intel inside pentium® PROCESSOR



Sony Cell Phone with folding arm microphone helps you fax and e-mail wirelessly*, not to mention remember 99 phone numbers.



Wirelessly download images to your notebook using the **Digital Still Camera (DSC-F1)** with built-in flash and LCD screen. Stores up to 108 images at 640x480 resolution.

Sony VAIO™ Notebook

features full multimedia capabilities with a 12.1" active matrix LCD screen, built-in CD-ROM, stereo speakers and modem. Giving you maximum performance at a mere 5.75 pounds and 1.5" thickness.



Get more out of your multimedia experience with three-way **Sony VAIO USB Controlled Computer Speakers**. Or use the Remote Control headphones that come with the notebook to listen to your favorite CDs.





VAIO All-in-One Printer lets you print in color, fax, copy and scan. We should all be so multi-faceted.

For more info: 1-888-552-7669 or www.sony.com/freedom

Now the newest member of your family can travel the world long before ever taking that first big step. With, of course, a little help from the new Sony VAIO Notebook. Just wirelessly download your favorite shots from your VAIO Sony Digital Still Camera, and e-mail them to family, friends and co-workers anywhere — perhaps even with a little sound byte from the one-toothed wonder. For refrigerators all over the world, kick out a few precious moments using the All-in-One Printer. Then, if you absolutely must, get a little work done while the two of you listen to lullabies on your VAIO speakers. Talk about bonding time.

SONY

{ Fax }

To: William Wiemer From: E. B. Cleaypool 9/12/97 8:42 PM Page: 1 of 3

CENTER FOR ENTOMOLOGICAL STUDIES
1574 JEFFERSON AVENUE
RANDOLPH HALL, LABORATORY G
BOSKIE, VIRGINIA 94102

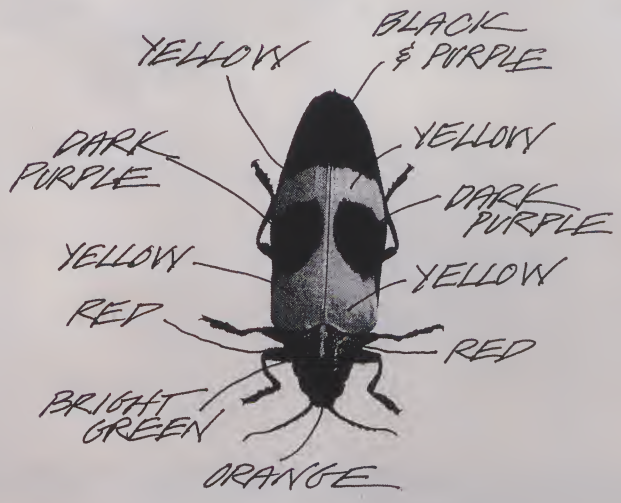
DR. E. B. CLEAYPOOL, PHD.

Dear Dr. Wiemer,

In response to your query regarding the exact coloration and/or markings of the Chrysochroa buguetti beetle, I have forwarded this information via fax. While not in color, it is the only way I could think of that would be in your hands in time for your speaking engagement tomorrow morning. Any questions, please don't hesitate to call.

Sincerely,

Dr. E. B. Cleaypool



A regular black and white fax looks much like

Make no mistake, it's a color world. A world, professional and otherwise, where color not only gets noticed first, but brings your documents to life. ChromaFax™, an all-new Windows® 95 electronic fax application for your PC now makes it easy to send and receive faxes in full blown color without add-ons, upgrades or peripherals — or

{ C h r o m a F a x }

To: William Wiemer From: E. B. Cleaypool 9/12/97 8:42 PM Page: 1 of 3

CENTER FOR ENTOMOLOGICAL STUDIES
1574 JEFFERSON AVENUE
RANDOLPH HALL, LABORATORY G
BOSKIE, VIRGINIA 94102

DR. E. B. CLEAYPOOL, PHD.

Dear Dr. Wiemer,

Per your request.

Sincerely,

Dr. E. B. Cleaypool



our color fax, only dead.

if need be, in black and white to existing fax machines. Plus, it's faster and costs less than overnight delivery, is more reliable than e-mail and is good fun to use. To get your free trial copy, give us a call at 1-800-400-5568 or find us at www.compressent.com/pcc.

CHROMA FAX
A Product of Compressent

Limited time offer: $20 Mail-in Rebate.

"Whether mail means business or pleasure, Eudora Pro is the best mailer on the market."
Computer Life

"Simply put, Eudora Pro 3.0 is the best stand-alone email client around."
cInet

"QUALCOMM's Eudora Pro continues to be the email program for power users."
PC Magazine

"Eudora is the cream of the email crop."
Home Office Computing



"No package deals with Internet email as well as Eudora Pro. Get Eudora Pro 3.0 if you need a powerful, easy-to-use solution for managing your Internet email."
Windows Sources

"Eudora Pro is our pick... other [email] packages can't match Eudora Pro."
Home PC

"If you use email every day, check out Eudora Pro 3.0. It offers message filtering, supports most standards, and beats any browser's email client."
PC Computing - 4 Star Review

The email that gets fan mail.

Technology critics are a notoriously tough crowd. But critics have joined Eudora's 18 million users in praising Eudora Pro™ software. It's the world's #1 internet email product.

Now, Eudora Pro software is even better. The new Eudora Productivity Toolkit CD-Pack is bundled with Eudora Pro.

Introducing the Eudora Productivity Toolkit™

- PGP® for Personal Privacy for security
- McAfee VirusScan® for virus protection
- Aladdin Stuffit® for file compression
- Verity® KEYview™ for attachment viewing

The Eudora Productivity Toolkit solves the four biggest issues in Internet communication today:

1. Security
2. Virus protection
3. Attachment compression
4. Attachment viewing

Play-by-Play

Win a big screen TV
Buy Eudora Pro with the Eudora Productivity Toolkit CD-Pack and receive a free CD-Rom of email comics and enter the "Play-by-Play" sweepstakes for a chance to win a big screen TV.* Valid through 11-30-97.

How to buy Eudora Pro
Buying Eudora Pro software is easy:

- Call 1-800-2-EUDORA ext. 29783
- Email eudora-sales-pcc1@qualcomm.com
- Visit or web site at **www.eudora.com/pcc1** to download a 30-day free trial of Eudora Pro software and to register for the Play-by-Play sweepstakes.

The world's largest group of email users and the critics can't be wrong. Buy Eudora Pro and find out for yourself.

EUDORA™

QUALCOMM®

©1997 QUALCOMM Incorporated. All rights reserved. Eudora Division, 6455 Lusk Blvd., San Diego, CA 92121-2779 USA. Eudora and QUALCOMM are registered trademarks and Eudora Pro and Eudora Productivity Toolkit are trademarks of QUALCOMM Incorporated. * No purchase necessary to enter "Play-by-Play" sweepstakes. KEYview is a trademark of Verity, Inc. Stuffit is a trademark of Aladdin Systems, Inc. VirusScan is a trademark of McAfee Associates, Inc. PGP is a registered trademark of Pretty Good Privacy, Inc. All other tradenames and trademarks are the property of their respective companies.

Circle 190 on reader service card

A-List

Editors' top picks in 100 hardware, software, and Internet categories. **Edited by Wendy Taylor and Kyla K. Carlson**



DESKTOP SYSTEMS

LX Advantage: The first systems based on Intel's LX chip set are here. What's in it for you? Faster 3-D graphics—especially for games.

Top Pick	The Buzz	The Stats*
State-of-the-Art PC Gateway G6-300XL	**Make Windows 95 or NT scream. This 300MHz Pentium II includes Intel's LX motherboard chip set and AGP graphics.**	$3,799, 300MHz Pentium II, 64MB SDRAM, AGP graphics card, 19-inch monitor. (800) 216-3383. See this issue, page 102.
High-Performance PC Dell Dimension XPS D266	**Wow! A 266MHz MMX Pentium II and all the extras for under $3,000. Order it on the Web and avoid talking to a sales rep.**	$2,999, 266MHz MMX Pentium II, 64MB SDRAM, 8GB hard drive, AGP graphics card. (800) 388-8542. See this issue, page 102.
Desktop Workhorse Dell Dimension XPS M233s	**Yesterday's top-of-the-line MMX Pentium is today's bargain workhorse for Windows 95. Check it out.**	$2,779, 233MHz Pentium, 32MB SDRAM, 12X/24X CD-ROM drive, Zip drive. (800) 545-3723. See July 1997, page 93.
Low-Cost Desktop PC Compaq Presario 2200	**A well-dressed 180MHz PC. What's not to like?**	$999, 180MHz GX, 16MB RAM, 1.6GB hard drive, 8X CD-ROM, 33.6Kbps modem. (800) 345-1518. Stay tuned.
SOHO System Gateway 2000 P5-200	**Keep your home office humming and the whole family entertained. Loaded with software too.**	$1,879, 200MHz MMX Pentium, 32MB SDRAM, 4GB hard drive, 12X CD-ROM. (800) 216-3383. See May 1997, page 182.
Pricewise Direct System CyberMax ValueMax C5 233+ MMX	**Have it all: Pentium II and MMX power for hundreds less with Cyrix's 233MHz M2 chip. Great for Windows 95 or NT.**	$1,949, 233MHz Cyrix M2, 64MB RAM. (800) 437-4596. Stay tuned.



SERVERS

CPU Fever: More CPUs equals better network performance. By this time next year, dual- and quad-processor servers will be the standard.

Top Pick	The Buzz	The Stats*
High-Performance Web Server SAG Electronics STA Alpha 500	**Powerful enough to serve up your Web pages, yet affordable enough to live on the desktop. Great storage options too.**	$4,870, 500MHz Alpha 21164, 64MB ECC RAM, 4.3GB Ultrawide SCSI hard drive. (800) 989-3475. See July 1997, page 88.
Small Workgroup Server Digital Prioris XL Server 5133	**Be the office hero. Get top-flight network performance without blowing the company budget.**	$2,200, 133MHz Pentium, 32MB RAM, 4X CD-ROM. (800) 344-4825. See Jan. 1997, page 127.
Large Workgroup Server Hewlett-Packard NetServer LH Pro	**The server to get when your network can never, ever afford to go down.**	$8,276, 200MHz Pentium Pro, 64MB RAM, four 2.1GB Ultra SCSI drives. (800) 533-1333, ext. 2185. See Feb. 1997, page 80.



PORTABLE SYSTEMS

Travel Is Hell: Why make it any harder than it has to be? IBM's ThinkPad 770 costs a bit more, but includes a 14.1-inch display and DVD.

Top Pick	The Buzz	The Stats*
State-of-the-Art Portable IBM ThinkPad 770	**The civilized way to travel: a 14.1-inch display, surround-sound audio, DVD, and a 33.6Kbps modem included.**	$7,000, 233MHz MMX Pentium, 32MB SDRAM, 5.1GB hard drive. (800) 426-2968. See this issue, page 101.
Desktop Replacement NEC Computer Systems Versa 6060	**The best dollar value for a desktop replacement you'll find.**	$3,649, 166MHz MMX Pentium, 32MB EDO RAM, 2.1GB hard drive. (888) 306-4636. See this issue, page 256.
Low-Cost Portable Compaq Presario 1060	**Designed for the home, but at home in the office. Sleek styling too.**	$1,999, 120MHz Pentium, 16MB RAM, 6X CD-ROM drive. (800) 345-1518. Stay tuned.

*ESTIMATED STREET PRICE.

Are you reading this magazine to find the most advanced technology?



You can stop reading now.

Introducing NEC Direction™ PCs. The latest in cutting edge technology.

Of course, if you'd like substantiation for that claim, you'll have to read the rest of this ad. Then, we think you'll agree the NEC Direction PC is one of the most advanced PCs of its time. Not surprising when you consider NEC has always been at the forefront of technology with such innovations as the first color laptop and the first workgroup servers with redundant hot-swap power, disks and fans. But if you'd like to speak to someone about the Direction PC rather than just read about it, call NEC NOW.℠ You can speak to a knowledgeable System Consultant or, if you prefer, work with a highly qualified NEC reseller partner. Either of whom will help you customize and order one of the most advanced PCs in this or any magazine out there.



Why NEC NOW?

- The security of partnering with a company known for its technological innovations.
- The flexibility of ordering direct or through a reseller.
- The expertise of System Consultants.
- The immediate availability of competitively priced products.
- The resources of one of the world's largest computer companies.

NEC NOW

MMX™ intel inside pentium® PROCESSOR

©1997 NEC Computer Systems Division, Packard Bell NEC, Inc. NEC, Versa, and MultiSync are registered trademarks; VersaBay, A700, C700, C500, ESM, PortBar, MiniDock and Express5800 are trademarks, and UltraCare is a service mark of NEC Corporation, all used under license by Packard Bell NEC, Inc. Direction, VersaNote, VersaExec, and MagicEye are trademarks and NEC NOW is a service mark of Packard Bell NEC, Inc. Leasing based on typical 36-month lease with purchase option. Other lease options may be available, leasing arranged by third party leasing company to qualified customers. Prices do not include shipping or applicable sales tax, are valid in the US only and are subject to change without notice. Products and specifications are subject to change without notice. *Product is 56Kbps capable. However, due to FCC rules which restrict power output of the service providers' modems, current download speeds are limited to approximately 53Kbps. Actual speed may vary depending on line conditions. MS, IntelliMouse, Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation. NetWare and Novell are registered trademarks of Novell, Inc. The Intel Inside logo, LANDesk and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. All other trademarks and registered trademarks are property of their respective owners.

Circle 239 on reader service card.

NEC Direction PCs *A new direction in cutting edge technology.*

Common Features: Mini-Tower or Desktop Tool-Less Chassis • 24X max CD-ROM • 3.5" Floppy Drive • Microsoft® Windows® 95 • MS® Office 97 SBE • 2 USB Ports • Microphone • Palmrest Keyboard and MS IntelliMouse® • 3-Year Limited Warranty with 1-Year On-Site Service • *DirecPC Satellite Dishes are Now Available as Upgrades on all Direction Systems*

Direction SPL300

- 300MHz Pentium® II processor with MMX™ technology/512KB Integrated L2 Cache
- ATX Motherboard with 440LX Chip Set
- 9.0GB SCSI Hard Drive/64MB SDRAM
- Adaptec 2940UW SCSI Controller
- Number Nine AGP Revolution 3D, 4MB WRAM
- Altec® ACS-90 Speakers/Integrated Yamaha Sound
- Iomega® Zip Drive
- NEC C700™ 17" Monitor (16" v.i.s.)
- MS Windows NT® 4.0
- * Upgrade to 128MB SDRAM, add $379
- * Upgrade Video Memory to 8MB WRAM, add $119

$4229
Business Lease: $148/mo.

Direction SPL266

- 266MHz Pentium II processor with MMX technology/512KB Integrated L2 Cache
- ATX Motherboard with 440LX Chip Set
- 4.3GB Ultra DMA Hard Drive/32MB SDRAM
- 4MB SGRAM AGP Graphics Card
- Altec ACS-90 Speakers/Integrated Yamaha Sound
- NEC C550 15" Monitor (14" v.i.s.)
- * Upgrade to Wavetable Audio, add $49
- * Upgrade to U.S. Robotics® 56Kbps* Data/Fax/Voice Modem, add $119
- * Upgrade to NEC C700 17" Monitor (16" v.i.s.), add $199

$2329
Business Lease: $84/mo.

Direction SPL233

- 233MHz Pentium II processor with MMX technology/512KB Integrated L2 Cache
- ATX Motherboard with 440LX Chip Set
- 4.3GB Ultra DMA Hard Drive/32MB SDRAM
- 4MB SGRAM AGP Graphics Card
- Altec ACS-90 Speakers/Integrated Yamaha Sound
- U.S. Robotics 56Kbps* Data/Fax/Voice Modem
- NEC C550 15" Monitor (14" v.i.s.)
- * Upgrade to 7.0GB Hard Drive, add $109
- * Upgrade to Number Nine AGP Revolution 3D, 4MB WRAM, add $219

$2199
Business Lease: $79/mo.

Direction SPL300

- 300MHz Pentium II processor with MMX technology/512KB Integrated L2 Cache
- ATX Motherboard with 440LX Chip Set
- 6.4GB Ultra DMA Hard Drive, 9.5ms/64MB SDRAM
- Number Nine AGP Revolution 3D, 8MB WRAM
- Altec ACS-45 Speakers/Wavetable Audio
- U.S. Robotics 56Kbps* Data/Fax/Voice Modem
- NEC C700 17" Monitor (16" v.i.s.)
- * Upgrade to Altec ACS-410 Speakers with ACS-251 Subwoofer, add $69

$3499
Business Lease: $126/mo.

Direction SPL300

- 300MHz Pentium II processor with MMX technology/512KB Integrated L2 Cache
- ATX Motherboard with 440LX Chip Set
- 7.0GB Ultra DMAHard Drive/64MB SDRAM
- 4MB SGRAM AGP Graphics Card
- Altec ACS-90 Speakers/Wavetable Audio
- NEC C700 17" Monitor (16" v.i.s.)
- * Upgrade to Number Nine AGP Revolution 3D, 4MB WRAM, add $219
- * Upgrade to Iomega Zip Drive, add $99

$2949
Business Lease: $106/mo.

Direction SPT233

- 233MHz Pentium processor with MMX technology/512KB L2 Pipeline Burst Cache
- 4.3GB Ultra DMA Hard Drive/32MB SDRAM
- 4MB SGRAM AGP Graphics Card
- Altec ACS-45 Speakers/AWE32 Wavetable Audio
- NEC C700 17" Monitor (16" v.i.s.)
- * Upgrade to Altec ACS-410 Speakers with ACS-251 Subwoofer, add $69
- * Upgrade to U.S. Robotics 56Kbps* Data/Fax/Voice Modem, add $119

$2379
Business Lease: $86/mo.

Direction SPT233

- 233MHz Pentium processor with MMX technology/512KB L2 Pipeline Burst Cache
- 6.4GB Ultra DMA Hard Drive, 9.5ms/64MB SDRAM
- Number Nine PCI Revolution 3D, 8MB WRAM
- Altec ACS-45 Speakers/Wavetable Audio
- Iomega Zip Drive
- U.S. Robotics 56Kbps* Data/Fax/Voice Modem
- NEC C700 17" Monitor (16" v.i.s.)
- * Upgrade to 128MB SDRAM, add $379
- * Upgrade to Altec ACS-410 Speakers with ACS-251 Subwoofer, add $69

$2889
Business Lease: $104/mo.

Direction SPT233

- 233MHz Pentium processor with MMX technology/512KB L2 Pipeline Burst Cache
- 7.0GB Ultra DMA Hard Drive/32MB SDRAM
- Number Nine PCI Revolution 3D, 4MB WRAM
- Altec ACS-45 Speakers/AWE32 Wavetable Audio
- Iomega Zip Drive
- U.S. Robotics 56Kbps* Data/Fax/Voice Modem
- NEC C700 17" Monitor (16" v.i.s.)
- * Upgrade to NEC MultiSync® A700™ 17" Monitor (15.6" v.i.s.), add $229
- * Upgrade to 64MB SDRAM, add $199

$2649
Business Lease: $95/mo.

Direction SPT200

- 200MHz Pentium processor with MMX technology/512KB L2 Pipeline Burst Cache
- 3.2GB Ultra DMA Hard Drive/32MB SDRAM
- 4MB SGRAM PCI Graphics Card
- Altec ACS-90 Speakers/Integrated Yamaha Sound
- U.S. Robotics 56Kbps* Data/Fax/Voice Modem
- NEC C550 15" Monitor (14" v.i.s.)
- * Upgrade to NEC C700 17" Monitor (16" v.i.s.), add $199
- * Upgrade to Iomega Zip Drive, add $99

$1789
Business Lease: $64/mo.

NEC Versa® 2700 Series Notebooks *All-in-one convenience at a sensible price.*

Common Features: PCI Bus with 128-bit Graphics Accelerator • 256KB L2 Pipeline Burst Cache • 32-bit CardBus Support • 2MB VRAM • USB Port • 56Kbps* Integrated Modem • Stereo Speakers and Subwoofer with 3D Stereo Sound • DMI 2.0 Compliant • Intel LANDesk® Manager 3.0 • MS Windows 95 • Bundled MS Software Including MS Word 97 • Upgradeable 1-Year Limited Warranty

Versa 2760MT

- 166MHz Pentium processor with MMX technology
- 12.1" SVGA Active Matrix TFT Color Display
- 16MB EDO DRAM (96MB max)
- Built-in 2.1GB Hard Drive, 16X max CD-ROM, 1.44MB Floppy Drive, and Lithium Ion Battery
- * Upgrade to 80MB RAM, add $699
- * Optional 2nd Lithium Ion Battery, add $199
- * Optional Versa PortBar™ 2700 Port Replicator, add $159
- * Optional NEC Xircom 10Base-T Network Card, add $139

$3199
Business Lease: $115/mo.

Versa 2730MT

- 133MHz Pentium processor with MMX technology
- 12.1" SVGA Active Matrix TFT Color Display
- 16MB EDO DRAM (96MB max)
- Built-in 1.44GB Hard Drive, 16X max CD-ROM, 1.44MB Floppy Drive, and NiMH Battery
- * Upgrade to 48MB RAM, add $299
- * Optional Lithium Ion Battery, add $199
- * Optional VersaPro™ Ballistic Nylon Carrying Case, add $99
- * Upgrade to a 2.1GB Hard Drive, add $149

$2799
Business Lease: $101/mo.

Versa 2730M

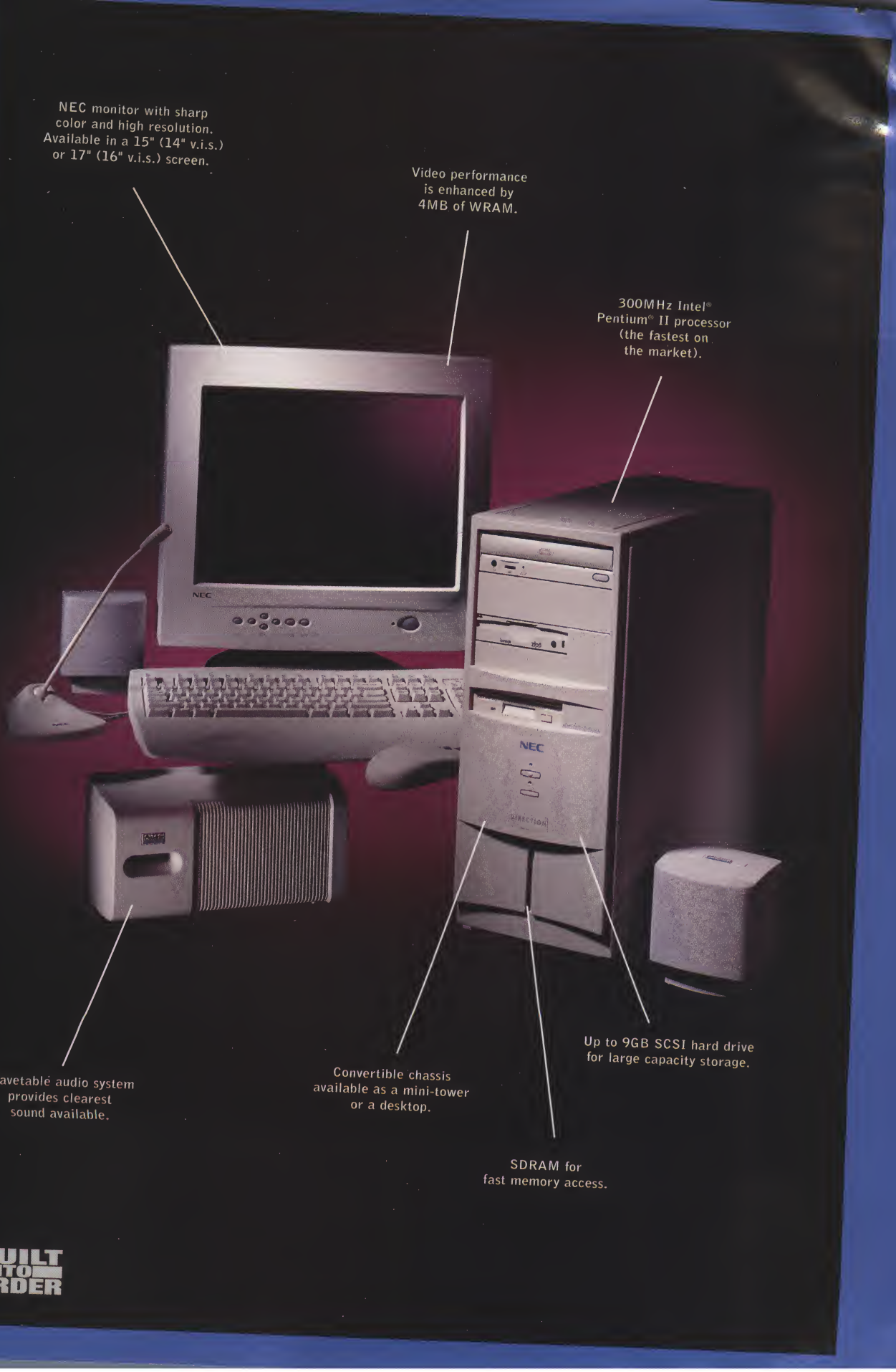
- 133MHz Pentium processor with MMX technology
- 12.1" SVGA DSTN Color Display
- 16MB EDO DRAM (96MB max)
- Built-in 1.44GB Hard Drive, 16X max CD-ROM, 1.44MB Floppy Drive, and NiMH Battery
- * Upgrade to 32MB RAM, add $159
- * Optional Lithium Ion Battery, add $199
- * Optional VersaNote™ Ballistic Nylon Carrying Case, add $69
- * Upgrade to a 2.1GB Hard Drive, add $149

$2349
Business Lease: $85/mo.

To order, get a free catalog or find your nearest reseller call:
Mon-Fri 8am-8pm EST

1-888-8-NEC-NOW
Dept. No. PC576A **www.necnow.com**

NEC


NEC monitor with sharp color and high resolution. Available in a 15" (14" v.i.s.) or 17" (16" v.i.s.) screen.
Video performance is enhanced by 4MB of WRAM.
300MHz Intel® Pentium® II processor (the fastest on the market).
Wavetable audio system provides clearest sound available.
Convertible chassis available as a mini-tower or a desktop.
SDRAM for fast memory access.
Up to 9GB SCSI hard drive for large capacity storage.
NEC
NEC
BUILT TO ORDER

A-List

continued from page 57

PORTABLE SYSTEMS continued

Top Pick	The Buzz	The Stats*
Traveling Multimedia Portable Micron TransPort VLX	Everything you need to deliver presentations and stay productive on the road—for under $2,500.	$2,499, 133MHz Pentium, 16MB EDO RAM, 1.4GB hard drive. (800) 733-9513. See this issue, page 256.
Lightweight Traveling Companion IBM ThinkPad 560E	Your shoulders will thank you. Get a 12.1-inch display and top-drawer usability in this sub–5-pound package.	$4,399, 166MHz MMX Pentium, 16MB EDO RAM, 2.1GB hard drive. (800) 426-2968. See this issue, page 256.



PRINTERS

Two for One: Need a printer? Get one on this list. Need a printer and a scanner? Canon's newest includes a miniscanner for the ink slot (page 118).

Top Pick	The Buzz	The Stats*
Low-Cost Desktop Laser Printer NEC Technologies SuperScript 860	What are you waiting for? At under $400, this desktop laser is a steal.	$399, 8 ppm, 600 dpi. (800) 632-4636. See Apr. 1997, page 177.
High-Speed Desktop Laser Printer NEC Technologies SuperScript 1260	Double-digit engine speeds for petty cash, and the software is as easy as it gets. Why not buy two?	$799, 12 ppm, 600 dpi, network option. (800) 632-4636. Stay tuned.
High-Speed Network Laser Printer Hewlett-Packard LaserJet 5Si Mopier	It prints, sorts, and staples at speeds close to your $20,000 copy machine.	$9,143 list price, 24 ppm, 3,100-page capacity, 420MB disk drive. (800) 752-0900. See Dec. 1996, page 106.
Multifunction Printer/Fax/Copier Brother Int'l MFC-4550	Costs more than its ink-jet competitors, but the laser engine means faster speeds and better-looking output.	$800, 6 ppm, 600-dpi laser printer, TWAIN-compliant scanning. (800) 284-4329. See June 1997, page 114.
Desktop Color Printer Epson America Stylus Color 800	The perfect partner for your digital camera: Epson's latest produces photo-quality prints that rival those from a FotoMat.	$449, 1,440-by-720-dpi color and black, 7-ppm color, 8-ppm black. (800) 463-7766. See May 1997, page 90.
Low-Cost Network Color Printer Hewlett-Packard DeskJet 1600CM	The cheapest way to give everyone on the network color output. And it's fast.	$1,999, ink jet, 4-ppm color, 9-ppm black. (800) 752-0900. See Nov. 1996, page 196.
High-Speed Network Color Printer Lexmark Int'l Optra C Pro	Still the fastest and best color laser for your money. Looking for more of a bargain? Check out Lexmark's Optra SC 1275n.	$5,000, laser, 3-ppm color, 12-ppm black. (800) 539-6275. See Nov. 1996, page 196.
Photo-Quality Color Printer Tektronix Phaser 450	Need the best photo output money can buy? With outstanding color matching and workgroup support, this is your printer.	$6,995 list price, dye sublimation, 300 dpi, 16MB RAM. (800) 835-6100. Stay tuned.



STORAGE

Don't Delete It: Stash it. High-capacity drives and low-cost removables deliver all the disk space you need for just pennies per megabyte.

Top Pick	The Buzz	The Stats*
Hard Drive IBM Deskstar 5	Load all the Microsoft Office clip art and still have room for downloads with the 6.4GB Deskstar 5.	$399, 6.4GB EIDE, 9.5ms seek time. (800) 426-7777. See August 1997, page 218.
Removable Storage SyQuest Technology SyJet	This Jaz drive killer is faster, cheaper—and its cartridges hold more. If your office hasn't standardized with the Jaz, check it out.	$499, $125 for disks, 1.5GB, 12ms seek time, SCSI interface. (800) 245-2278. See August 1997, page 232.
CD-ROM Drive Panasonic 12X Big 5	Stop the CD shuffle! Get a 5-disc, 12-speed CD changer for the price of a single-disc drive.	$279, EIDE interface, 12X changer, holds five discs. (800) 742-8086. See June 1997, page 245.

*ESTIMATED STREET PRICE UNLESS NOTED OTHERWISE.

Devilish control of schedules

f you're managing projects we double-dare ou to read this.

No one said managing projects was easy. Deadlines, limited resources and tight budgets add up to one big headache. Unless you've got SureTrak Project Manager® 2.0.

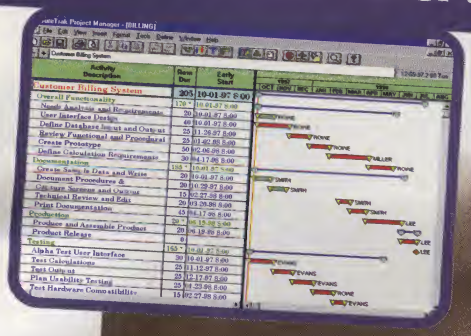
SureTrak is perfect if you don't have a lot of time to manage projects. It gives you start-to-finish control, from changing start dates to linking activities, all with point-and-click ease. And if you've never managed a project before, just click into Project KickStart™, a step-by-step organizer that helps you plan every phase of your project.



SureTrak Project Manager gives you

The Power to Save Time.

ureTrak helps your project teams stay n track, with easy-to-read bar charts, ERT diagrams and resource graphs. us, it reads .MPX files, so you can asily switch over from that devilishly mplicated system you may be using w. And all this project management ower costs less than $400.



iscover the ease and affordability of ureTrak Project Manager today. Visit us t www.primavera.com/products/stpcc.html, r call us at 800.973.1335

WIN 100 WINDOWS MAGAZINE 1997

PCComputing THE A LIST

1996 Finalist MVP PCComputing

PRIMAVERA
How the World Manages Projects

800.973.1335 www.primavera.com/products/stpcc.html

Circle 214 on reader service card

A-List

continued from page 62

STORAGE continued

Top Pick	The Buzz	The Stats*
CD-Recordable Drive Creative Labs Blaster CD-R 4210	**Easy and inexpensive CD publishing. Doubles as a quad-speed CD-ROM drive too.**	$499 internal, SCSI interface, 4X CD-ROM reader. (800) 998-5227 ext. 135. See June 1997, page 245.
Network Storage Seagate Technology Cheetah 4LP	**So it costs a little more—it's still the fastest SCSI drive in its class. Use it alone or in a RAID array for smoking server performance.**	$1,050, 4.5GB, 7.5ms seek time. (800) 732-4283. See Aug. 1997, page 218.



PERIPHERALS

Instant Gratification: Digital cams let you snap photos and publish them in seconds. Next up? Digital video cams that do the same for motion MPEG.

Top Pick	The Buzz	The Stats*
Personal Document Scanner Visioneer PaperPort Strobe	**The ultimate way to tame that paper in-box. Fast, easy to use, and now there's even color.**	$299; 300-by-600 dpi; OCR, image-editing, and document-management software. (800) 787-7007. See this issue, page 112.
Graphics Scanner Hewlett-Packard ScanJet 5pse	**Hassle-free scanning with a simple push of a button, and it's loaded with great software.**	$299, 24-bit, 300 dpi (1,200-dpi enhanced). (800) 722-6538. See May 1997, page 96.
Digital Camera Eastman Kodak Digital Science DC120 Zoom Digital Camera	**Your trusty point-and-shoot camera goes digital with stunning results.**	$999, 2MB RAM, 1,280 by 960 resolution. (800) 235-6325. See July 1997, page 209.
Sound Card Creative Labs Sound Blaster Awe64 Gold	**Makes games so real you'll duck when bullets sing by your head. Oh yeah, it's also great for business multimedia.**	$199, 64-voice. (800) 998-5227 ext. 135. See May 1997, page 103.
Speakers Eminent Technology LFT-11	**Is it live, or is it a pair of LFT-11s? Sound is so clean it's almost eerie.**	$599, speakers, receiver-amplifier, and subwoofer. (904) 575-5655. See Jan. 1997, page 136.
Uninterruptible Power Supply Best Power Patriot Plus 650	**Protecting your PC isn't enough. Make sure all your office equipment is safe from blackouts with the six-outlet Patriot.**	$279, 650-VA UPS, six outlets. (800) 356-5794. See Aug. 1997, page 302.
Input Device Microsoft IntelliMouse	**Do more with your mouse. Scroll through Office 97 documents and zip around Web pages with this scroll wheel.**	$85. (800) 426-9400. See Nov. 1996, page 173.



VIDEO HARDWARE

Spoil Yourself: Sure, they're pricey. But flat-panel LCDs like the NEC MultiSync LCD2000 give off zero radiation and consume less power than CRTs.

Top Pick	The Buzz	The Stats*
High-Resolution 20- or 21-Inch Monitor Samsung Electronics America SyncMaster 21GLs	**Picture this: more Windows per square inch and razor-sharp text. This is one upgrade that pays for itself.**	$1,649, 21-inch, 1,600 by 1,200 pixels at 75Hz, Plug and Play. (800) 933-4110. See May 1997, page 191.
High-Resolution 17-Inch Monitor Sony MultiScan 17sell	**Priced a bit higher than the competition, but you're worth it, right?**	$899, 1,280 by 1,024 pixels at 75Hz. (800) 352-7669. See May 1997, page 171.
High-Resolution 15-Inch Monitor NEC Technologies MultiSync M500	**An affordable way to give the whole office a better view of Windows.**	$399, 1,024 by 768 pixels at 75Hz. (800) 632-4636. Stay tuned.
Flat-Panel Display NEC Technologies MultiSync LCD2000	**Glimpse the future on your desk with NEC's eye-popping 20.1-inch flat-panel display. Emits zero radiation.**	$8,000, 0.31mm dot pitch, 20.1 inches, 8.5-inch depth, 1,280 by 1,024 resolution at 75Hz. (800) 632-4636. See Apr. 1997, page 79.

*ESTIMATED STREET PRICE.



SATELLITE TV AND TURBO INTERNET™ NOW SERVED UP ON ONE DISH.

(COOL, HUH?)

INTRODUCING DirecDuo.

Imagine two satellites deep in space. One is broadcasting all the greatest, wildest Web sites from the Internet, at blistering speeds up to 400 Kbps. The other transmits over 200 TV channels of your favorite sports, movies, news, family shows and more. Now imagine getting all of this content—enough to entertain a small village—right in your home, through just one dish.

Turbo Internet™ now as low as $19.95 per month*!

Act now and receive $100 service credit from DirecPC!

WHOA...

With DirecDuo, the best of TV and the Internet finally converge. That's because DirecDuo brings you the fastest Internet access available nationwide from DirecPC™, plus hundreds of top-quality digital TV channels from DIRECTV® and USSB®. Existing subscribers to DirecPC, DIRECTV or USSB can upgrade to DirecDuo at a reduced cost. Even better, all DirecDuo owners can get access to the Internet at speeds of up to 200 Kbps for just $19.95 per month*, with the new Moon Surfer™ II plan from DirecPC. And, if you subscribe to any DirecPC package before December 31, 1997, you'll receive a $100 credit, applicable towards your first year of service.† High-speed Internet access has never been more affordable!

So take advantage of everything DirecDuo has to dish out. Call 1-800-DIRECPC ext. 101 today for the retailer nearest you, or visit us on the Web at www.direcduo.com.

DirecPC + DIRECTV® USSB® = DirecDuo

1-800-DIRECPC ext.101 or www.direcduo.com

Circle 345 on reader service card.

HUGHES NETWORK SYSTEMS
A HUGHES ELECTRONICS COMPANY

Copyright 1997, Hughes Network Systems, a unit of Hughes Electronics Corporation. DirecPC, Moon Surfer, Turbo Internet and DirecDuo are trademarks of Hughes Network Systems, a unit of Hughes Electronics Corporation. DIRECTV is a registered trademark of DIRECTV, Inc., a unit of Hughes Electronics Corporation. USSB is a registered trademark of United States Satellite Broadcasting Company, Inc. *Price applies to single-user system only. Moon Surfer II plan: Up to 200 Kbps for $19.95/month from 6pm-6am M-F, all day weekends. From 6am-6pm M-F, cost is ¢50/MB. ISP charges not included. †$100 service credit applies to DirecPC Personal Edition users activating a new Turbo Internet account by 12/31/97. Service credit will be equally distributed over first 12 months of service. Not for resale. All DirecPC packages subject to DirecPC Fair Access Agreement.

A-List

continued from page 64

VIDEO HARDWARE continued

Top Pick	The Buzz	The Stats*
Graphics Accelerator Matrox Graphics Millennium II	**The next-generation Millennium gains faster 2-D and 3-D and an optional TV tuner. Wow!**	$299, 8MB WRAM, 1,920 by 1,200 pixels at 256 or 65K color, PCI interface. (800) 361-1408. See Aug. 1997, page 96.
3-D Games Card STB Systems Velocity 3D	**Stunning 3-D graphics bring action games to life.**	$199, 4MB EDO DRAM, 1,024 by 768 pixels at 120Hz. (888) 234-8750. See July 1997, page 222.
Video Capture Digital Processing Systems DPS Spark	**Show Hollywood how it's done with this high-speed digital video editing combo.**	$895, 720 by 480 resolution, Windows 95 and NT, 32MB RAM. (606) 371-5533. See July 1997, page 103.
Presentation Projector In Focus LitePro 620	**Make 'em sit up and listen. In Focus's projector turns your presentations into larger-than-life multimedia light shows.**	$7,000 list price, 21 pounds, 800 by 600 SVGA resolution. (800) 294-6400. See Feb. 1997, page 78.



COMMUNICATION HARDWARE

Plan Ahead: Don't get caught on the wrong side of the 56K standards war—make sure any analog modem you consider is flash-upgradable.

Top Pick	The Buzz	The Stats*
High-Speed Fax Modem Practical Peripherals Practical External 336 with Voice	**Fast on the Net and easy on your wallet, plus support for faxing and voice mail. Coming soon: a 56K upgrade.**	$149, external, 33.6Kbps maximum speed, fax, voice mail. (800) 225-4774. See Mar. 1997, page 181.
Desktop Videoconferencing 3Com Bigpicture Video Kit	**Meet face-to-face without flying coast-to-coast. Everything you need to turn your PC into a videophone.**	$399, 33.6Kbps modem, 24-bit, full-color NTSC video card, NTSC color camera. (800) 342-5877. See May 1997, page 292.
ISDN Adapter 3ComImpact IQ	**We're talking painless, no-sweat ISDN installation and setup with the Impact IQ. It boasts 3Com's SupernetAccess.**	$249, (800) 638-3266. See Jan. 1997, page 72.
LAN Adapter 3Com Fast EtherLink XL PCI 10/100 Network Interface Card	**Boost your network performance without breaking the bank.**	$55, 10Mbps or 100Mbps. (800) 638-3266. See Jan. 1997, page 140.
PC Card Modem Motorola Montana 33.6	**Montana—the state without speed limits—is also the name of Motorola's 33.6Kbps PC Card modem. And with good reason.**	$199, optional cellular connectivity, 33.6Kbps data, 14.4Kbps fax. (800) 427-2624. Stay tuned.
PC Card LAN Adapter Xircom CreditCard Ethernet 10/100+Modem 56	**Connect to your laptop or network at either 10Mbps or 100Mbps, and go online at up to 56K (K56flex technology).**	$379, PC Card Type II slot, RJ-45 and RJ-11 jacks, upgradable to 56K standard. (800) 882-4019. See this issue, page 285.



DESKTOP APPLICATIONS

Smart Alternative: Office 97 outsells the competition, but it's not your only option. Corel's WordPerfect Suite 8 does most of what Office does—*for $200 less.*

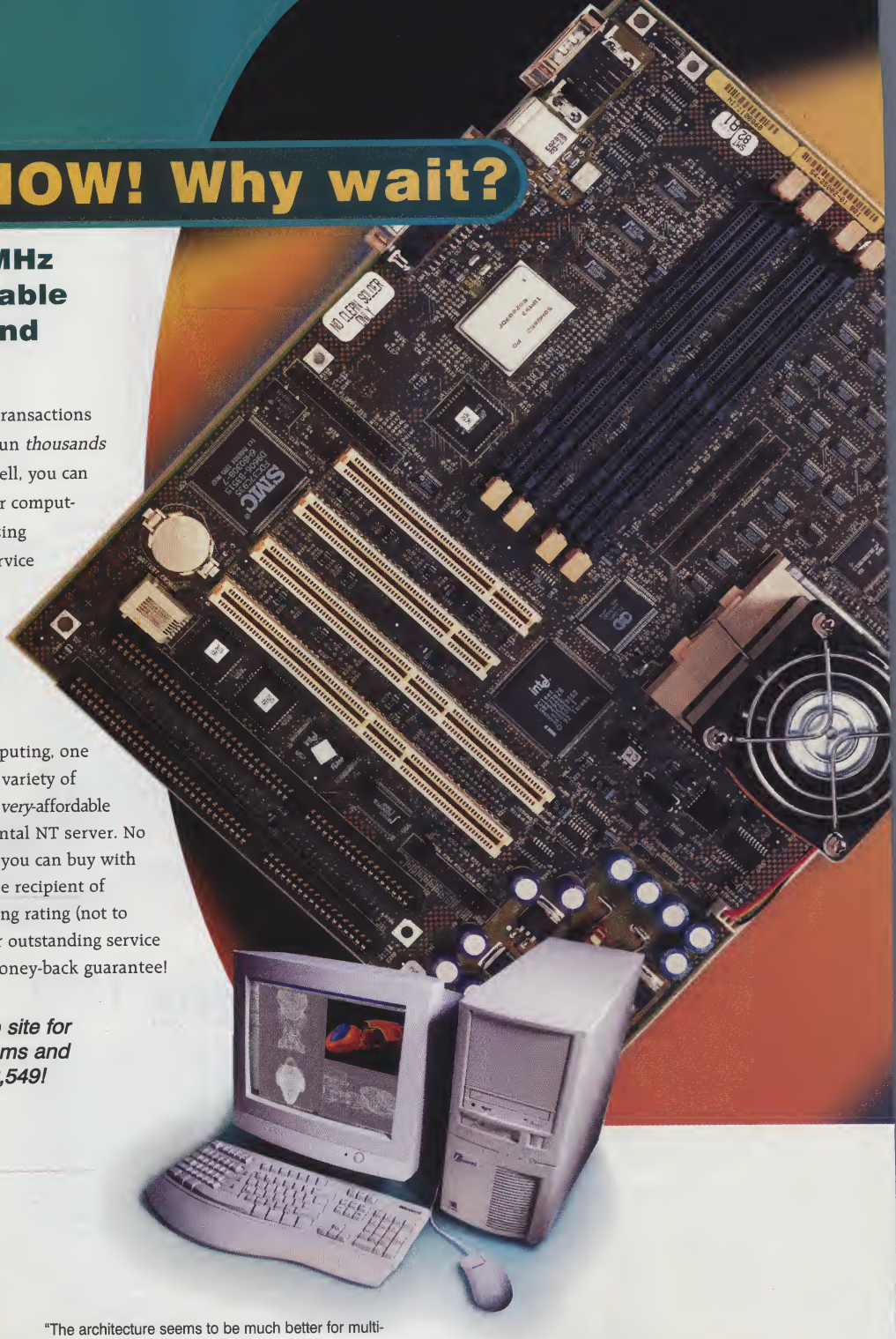
Top Pick	The Buzz	The Stats*
Software Suite Microsoft Office 97	**An irresistible upgrade to the world's best-selling business application suite. It's chock-full of Internet smarts too.**	$499 for Standard Edition, $599 for Professional Edition, Windows 95 or NT. (800) 426-9400. See July 1997, page 174.
Word Processor Microsoft Word 97	**The standard for businesses everywhere. Corel WordPerfect fans: Don't miss WordPerfect Suite 8.**	$339, Windows 95 or Windows NT 3.51, 8MB RAM, 16MB RAM for NT. (800) 426-9400. See Jan. 1997, page 87.
Spreadsheet Microsoft Excel 97	**It's a one-horse race and guess who's winning? Even Lotus's recent upgrade of 1-2-3 can't unseat this business favorite.**	$339, Windows 95 or Windows NT 3.51, 8MB RAM, 16MB RAM for NT. (800) 426-9400. See Jan. 1997, page 87.

*ESTIMATED STREET PRICE UNLESS NOTED OTHERWISE.

500MHz NOW! Why wait?

Enorex Makes 500 MHz Performance Affordable for Every Desktop and server - TODAY!

Imagine...servers that handle **twice** the transactions and **twice** the users...workstations that run *thousands* of applications...all at **up to 533 MHz**! Well, you can *stop dreaming* because Enorex makes your computing dreams an **affordable** reality with blazing performance, top quality, and excellent service & support.



Choose A Configuration to Meet Your Needs and Budget

Enorex knows that when it comes to computing, one size doesn't fit all. That's why we offer a variety of AlphaPowered™ systems, ranging from our *very*-affordable 366e workstation to our 533ds departmental NT server. No matter which Enorex system you choose, you can buy with confidence knowing that besides being the recipient of Win 100 honors, *and* a 4-Star PC/Computing rating (not to mention their July '97 cover!), you get our outstanding service and support, which includes a 30-day money-back guarantee!

Please call or check out our web site for many other AlphaPowered systems and upgrades. Systems start at $2,549!

$3,549
Business lease: $115/mo.

Ultra PC - 500e

Digital 500MHz Alpha CPU
Digital PC164 Motherboard w/1MB cache
32MB Parity Enabled DRAM
Seagate Medalist Hard Drive
(**6.4GB** 10ms EIDE)
Sony 3.5" 1.44MB Floppy Drive
Matrox Millennium II w/ 4MB WRAM
Toshiba **24x** EIDE CD-ROM
ATX Tower Case w/ 8 Drive Bays
300 Watt Power Supply
104-Keyboard / MS Mouse
Windows NT 4.0 Workstation
Digital FX!32 Binary Translation Software
3-year limited warranty

"The architecture seems to be much better for multi-tasking and a three-fold speed increase means we can beat out other companies in turning around projects."
Chris MacIntire
Head of Production
Unified Film Organization

AlphaPowered

Microsoft Windows NT

PCComputing

Enorex™ MICROSYSTEMS, INC.
AN ALPHA FOR EVERY DESKTOP

1-800-669-4742
www.enorex.com

©Enorex, Inc. All rights reserved. 518-7 Old Post Road, Suite 301, Edison, NJ 08817. Sales Hours: M-F, 9am - 9pm, Sat., 9am - 6pm (ET). All sales are subject to Enorex's limited warranties and terms and conditions of sale. Write or call us for a copy of our warranty. *On-site service may not be available in certain remote areas and is available only if determined necessary by technicians. System prices quoted do not include shipping or sales tax and are subject to change without notice or obligation. 30-day money-back-guarantee does not include return freight or shipping charges. All returned items must be in original packaging and software must be unopened. Enorex is not responsible for errors in type or photos. Products may differ from images shown. Pentium, Pentium Pro, Intel are registered trademarks of Intel Corp. Microsoft and Windows are registered trademarks of Microsoft Corp. AlphaPowered is a trademark of Digital Equipment Corporation. All other brands and product names are trademarks or registered trademarks of their respective companies.

Circle 375 on reader service card.

We just made your choice a little easier...

PCComputing

The CyberMax A53 powered past the competition and impressed the editors at *PC Computing* so much that they honored us with their **5 Star Award.** This award exemplifies a "market leader that offers exceptional performance".

June 1997

PC MAGAZINE EDITORS' CHOICE

In this year's June 24th issue, *PC Magazine* awarded **CyberMax** their prestigious Editors' Choice Award

JUNE 1997

PCComputing

Impressive. For the second time, in four short months, CyberMax received the prestigious *PC Computing* **5 Star Award.** This time around, it was for one of our **Cyrix™ 6x86MX's** which, along with the AMD-K6, offer exceptional value and performance when compared to the Pentium®II's.

September 1997

Windows Stellar

The September issue of *Window Sources* awarded **CyberMax** their **Stellar Award** because "the Winstone® 97 score of 50.2 stacks up well against those of the more expensive Pentium II 266-MHz systems from Gateway and Quantex we reviewed this month."

September 1997



On ten occasions over the last six months, **CyberMax** was in the *PC World's* **Top-20 Budget Desktop** list.

PC WORLD TOP 20 BUDGET DESKTOPS

April - September 1997

COMPUTER SHOPPER

"An impressive balance of features, performance and price makes the CyberMax PowerMax A62 233MMX one of the best values among this group of K6-based systems."

September 1997

64 MEGABYTES

WO1006 **The PowerMax A1** **$1999**

Business Lease.... $70

Our System of the Month

- AMD-K6™ 233MHz Processor w/ MMX™ Technology
- 64MB EDO Memory
- STB Velocity 3D Video Card w/ 4MB VRAM
- 5.1GB Hard Drive
- 24x Max CD-ROM, Ensoniq AudioPCI™ 32-bit Sound
- K56flex™ Protocol Fax/Mdm w/Voicemail & Speakerphone
- 17" (15.8"VA) 1280x1024 Color Monitor
- Altec Lansing ACS45 Powercube Speakers & Subwoofer
- Corel WordPerfect Suite 8 & Max's Business Pack

K6-200.....$1899
Pentium®II-266.....$2399
Add Iomega Zip 100MB IDE Drive.....$99

COMPUTER SHOPPER

"For a below average price, the CyberMax PowerMax A62 233MMX delivers an outstanding package of components and software, as well as a superlative performance punch."

September 1997

CyberMax joins the elite group of Dell, Gateway, Hewlett-Packard & Micron who have won the 1997 *PC Magazine* Editors' Choice Award.

CyberMax accepts Visa, MasterCard, Discover, American Express, prepaid checks and electronic wire transfers. Purchase orders from government agencies, universities, and Fortune 500 companies can also be accepted. All returned items must have an RMA number and must be in original packaging. The cost of returned freight is not included with any money back guarantee; shipping charges are not refundable. Prices and product descriptions are subject to change without notice. Microsoft, and Windows 95 are registered trademarks of Microsoft Corporation. Pentium, MMX and the Intel Inside Logo are registered trademarks of Intel corporation. AMD and Am5x86 are registered trademarks of Advanced Micro devices, Inc. Dell, Gateway, Hewlett-Packard and Micron are registered trademarks of their respective companies. *On-site service may not be available in certain remote areas, and is available only if determined to be necessary by our technicians; GE 4 year warranty is optional. Products may differ from image shown.Leasing terms:36 month/10% FMV option, taxes and shipping additional.

PII Class - *Small Office/ Home Office*



AMD K6 MMX™ ENHANCED PROCESSOR

Technology today empowers us to work for ourselves and on our own terms. More than ever before, entrepreneurs and parents are beginning to bring the office home. *Soho (small office/home office)* captures the essence of what makes America great, the freedom to make our dreams come true. If you ever wanted to start your own small business or work at home, CyberMax can cover all of your computing needs. We feature systems powered by the AMD-K6™ with MMX™ technology, which runs both Windows® 95 and NT™ at top speed and delivers industry-leading performance on both 16 and 32-bit code. At CyberMax, we understand your needs and offer sensible solutions— and that's taking care of business.

64 MEGABYTES

PO1001 **$2749**

The PowerMax P1

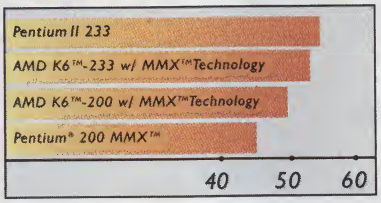
Business Lease.... $91

- Intel 266MHz Pentium® II Processor w/MMX™ Technology
- 64MB EDO Memory
- Matrox MGA Millennium II Video Card w/ 4MB WRAM
- 6.4GB Hard Drive
- 24x Max CD-ROM, Ensoniq AudioPCI™ 32-bit Sound
- Iomega Zip 100MB IDE Internal Drive w/cartridge
- K56flex™ Protocol Fax/Mdm w/Voicemail & Speakerphone
- 17" (15.8"VA) 1280x1024 Color Monitor
- Altec Lansing ACS45 Powercube Speakers & Subwoofer
- MS Office 97 Small Business Edition & Business Pack

PII-233.....$2649
19" Monitor.....$249

AMD K6

Ziff Davis Winstone® 97 running Windows®95



Choose the superior solution— the AMD-K6™ with MMX™ technology is the superior engine for Windows® computing. The AMD-K6 rivals the performance scores of the Pentium II processor.

64 MEGABYTES

PO1002 **$2249**

The PowerMax A2

Business Lease.... $78

- AMD-K6™ 233MHz Processor w/ MMX™ Technology
- 64MB EDO Memory
- Matrox Millennium II Video Card w/ 4MB WRAM
- 6.4GB Hard Drive
- 24x Max CD-ROM, Ensoniq AudioPCI™ 32-bit Sound
- K56flex™ Protocol Fax/Mdm w/Voicemail & Speakerphone
- 17" (15.8"VA) 1280x1024 Color Monitor
- Altec Lansing ACS45 Powercube Speakers & Subwoofer
- MS Office 97 Small Business Edition & Max's Business Pack

K6-200.....$2149
Pentium® II-266.....$2649
Upgrade to 8.0GB HDD.....$149

COMPUTER SHOPPER

"The K6 performed almost identically to the Pentium® II system on the mainstream business applications in Winstone 97 (under Windows 95)"
September 1997 - **K6 Contenders** (p. 180)

PO1003 **$1799**

The PowerMax A3

Business Lease.... $63

- AMD-K6™ 233MHz Processor w/ MMX™ Technology
- 32MB EDO Memory
- STB Velocity 3D Video Card w/ 4MB VRAM
- 4.3GB Hard Drive
- 24x Max CD-ROM, Ensoniq AudioPCI™ 32-bit Sound
- K56flex™ Protocol Fax/Mdm w/Voicemail & Speakerphone
- 17" (15.8"VA) 1280x1024 Color Monitor
- Altec Lansing ACS90 Speakers
- Corel WordPerfect Suite 8 & Max's Business Pack

K6-200.....$1699
Pentium® II-266.....$2099
Add Iomega Zip 100MB IDE Drive.....$99

PO1004 **$1499**

The PowerMax A4

Business Lease.... $52

- AMD-K6™ 200MHz Processor w/ MMX™ Technology
- 32MB EDO Memory
- STB Nitro 3D Video Card w/ 4MB EDO DRAM
- 4.3GB Hard Drive
- 16x Max CD-ROM, Ensoniq AudioPCI™ 32-bit Sound
- K56flex™ Protocol Fax/Mdm w/Voicemail & Speakerphone
- 15" (13.8"VA) 1280x1024 Color Monitor
- Altec Lansing ACS90 Speakers
- Corel WordPerfect Suite 8 & Max's Business Pack

K6-233.....$1599
Upgrade to 6.4GB HDD.....$149
Add the MS Natural Keyboard.....$49

PO1005 **$1299**

The PowerMax A5

Business Lease.... $45

- AMD-K6™ 166MHz Processor w/ MMX™ Technology
- 16MB EDO Memory
- STB Nitro 3D Video Card w/ 2MB EDO DRAM
- 3.2GB Hard Drive
- 16x Max CD-ROM, Ensoniq AudioPCI™ 32-bit Sound
- K56flex™ Protocol Fax/Mdm w/Voicemail & Speakerphone
- 15" (13.8"VA) 1280x1024 Color Monitor
- Altec Lansing ACS90 Speakers
- Corel WordPerfect Suite 8 & Max's Business Pack

K6-200.....$1399
Upgrade to 4.3GB HDD.....$99

Max's business software pack

❖ MS Money ❖ Compton's Interactive Encyclopedia ❖ Multimedia MBA ❖ Business Card Pro ❖ Project Manager Pro
❖ Day Planner Pro ❖ Resume & Job Planner Pro ❖ Form Designer Pro ❖ Final Four NCAA Basketball
❖ **MMX™ Titles Include:** Blockbuster Video Guide ❖ Billboard Music Guide ❖ Azrael's Tears
❖ Windows® 95/Plus

Introducing Microsoft Office 97 Small Business Edition, the first Microsoft Office Suite created specifically with small business needs in mind. The Small Business Edition contains everything you need to get organized, expand your marketing capabilities, evaluate your financial performance, and take advantage of the Internet!
MSB Includes: Microsoft Word 97, Microsoft Excel 97, Microsoft Outlook 97, Microsoft Publisher 97, SBE Financial Manager and Automap Streets Plus

Microsoft Office 97

Upgrade from Corel® WordPerfect Suite 8 to Microsoft's SBE....$CALL *Upgrade to* MS NT 4.0 - Consider the possibilities for just.....$99

Standard Components on Every System:

Mini Tower Case w/2 Fans ♦ 512K Pipeline Burst Cache ♦ 1.44MB 3.5" FDD ♦ MS Windows® 95 w/MS Plus 104-Key Keyboard ♦ Microphone ♦ Microsoft PS/2 Mouse ♦ Limited 3-Year Warranty 30 Day Money Back Guarantee ♦ Toll-free, Telephone Technical Support ♦ 1-year. In-Home Service* & 10 Minute Quick Setup Guide

*Not available in some remote areas and requires technical support agent's approval.

Visit us @: www.cybmax.com

Circle 336 on reader service card.

CyberMax Computer, Inc.

1-888-437-4596

A-List

continued from page 66

DESKTOP APPLICATIONS continued

Top Pick	The Buzz	The Stats*
Database Microsoft Access 97	**Lotus's $105 Approach 97 is easier to use, but only Access 97 lets you publish live data to the Web. It's also faster.**	$339, Windows 95 or Windows NT 3.51, 12MB to 16MB RAM. (800) 426-9400. See Mar. 1997, page 171.



FINANCE SOFTWARE

Get Richer, Faster: Quicken 98 is coming soon. Best reasons to upgrade: a stellar 401K manager and instant online credit-card and bank updates.

Top Pick	The Buzz	The Stats*
Personal Finance Manager Intuit Quicken Deluxe 6 for Windows	**Get branch-office checking right from your hard drive. Handles retirement planning and investment tracking too.**	$60, 486 CPU, 8MB RAM, 30MB hard disk space. (800) 446-8848. See Dec. 1996, page 100.
Business Accounting Intuit QuickBooks 5.0	**Focus on business while QuickBooks handles the accounting. For time and billing, check out Peachtree Complete.**	$99, 486 CPU, 8MB RAM, 34MB hard disk space. (800) 446-8848. See Feb. 1997, page 90.
Stock and Portfolio Manager E*Trade	**Don't spend a fortune trying to make one by playing the market. This broker's on call 24 hours a day.**	$14.95 per trade for up to 5,000 shares. (800) 786-2573. See this issue, page 98.



NETWORK SOFTWARE

NT Rules: If the number of NT-ready network tools and apps on the market is any measure, NT is the future. Watch for NT 5.0 to arrive in mid-1998.

Top Pick	The Buzz	The Stats*
Network Operating System Microsoft Windows NT Server 4.0	**At last! The first honest-to-goodness cross-platform operating system that's secure, stable—and runs all your apps.**	$809 (NT Server with five clients). (800) 429-9400. See Jan. 1997, page 185.
Groupware Novell GroupWise 5	**Your quest for the universal in-box is over. GroupWise is cross-platform, easy to use, and even handles your voice mail.**	$718 per server (five clients) list price, supports Windows 95 clients. (800) 453-1267. See Jan. 1997, page 165.
Group Scheduler Microsoft Outlook 97	**One of the best reasons to upgrade to Microsoft Office 97. Keep tabs on your schedule—and everyone else's.**	$109 (or as part of $499 Microsoft Office). (800) 426-9400. See July 1997, page 174.
E-mail Qualcomm Eudora Pro 3.0	**An elaborate Internet mail client for anyone who lives and dies by e-mail. MIME support is included.**	$89 single user, Windows 95 or Windows NT, Internet access. (800) 238-3672. See Jan. 1997, page 165.
LAN Management Tool Intel LANDesk Management Suite	**A network manager's dream. One utility gives you instant feedback on the network and everything connected to it.**	$650 (five nodes). (800) 538-3373. Stay tuned.



PERSONAL PRODUCTIVITY SOFTWARE

Competitive Edge: Let your software do your dirty work and stay one step ahead of the competition with these secret weapons for business.

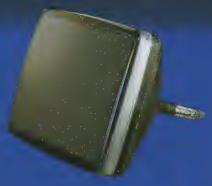
Top Pick	The Buzz	The Stats*
Contact Manager GoldMine Software GoldMine 3.2 for Windows 95 & Windows NT 4.0	**Complete contact tracking plus mail merge, calendar with group scheduling, and more. You've never been so organized.**	$170, Windows 95 or Windows NT, 8MB RAM. (800) 654-3526. See July 1997, page 174.
Document Manager ScanSoft Pagis Pro 97	**Turns paper pages into editable text and graphics. Color photos included.**	$99, Windows 95 or NT 4.0, 16MB RAM. (888) 997-2447. See July 1997, page 174.

*ESTIMATED STREET PRICE UNLESS NOTED OTHERWISE.

A breakthrough so visually advanced it leaves mere specs behind.



The MICROFILTER cathode ray tube is a brilliant breakthrough based on Toshiba's totally new approach to visual technology — relying far more on innovation than improved specifications. The result is a 30% increase in both brightness and contrast over our conventional CRTs. MICROFILTER utilizes original Toshiba technology — forming the micro-particulated material layer with primary color filters. Thus, shadow mask technology advances to a whole new level, surpassing even the aperture grill technique. Moving images are clear and bright; text is sharp and readable. In other words, MICROFILTER technology realizes the full visual potential of multimedia. Break through to a new level of brightness and contrast. The Toshiba MICROFILTER CRT.



microfilter CRT

More That Meets the Eye

http://www.toshiba.com/taec

In Touch with Tomorrow

TOSHIBA

Toshiba America Electronic Components, Inc., Electron Tube and Device Division
One Pkwy., North, Suite 500, Deerfield, IL 60015, U.S.A. Tel: (847) 945-1500 Fax: (847) 945-1044

Circle 215 on reader service card.

A-List

continued from page 70

PERSONAL PRODUCTIVITY SOFTWARE continued

Top Pick	The Buzz	The Stats*
Project Manager *Primavera* Systems SureTrak Project Manager 2.0	A top-notch interface and tons of wizards put more power than ever at your fingertips. Snappy performance too.	$399, Windows 3.1, 95, or NT, 8MB RAM. (800) 973-1335. See July 1997, page 174.
Communications Software Symantec WinFax Pro 8.0	Stop feeding the fax machine! WinFax Pro lets you send and receive faxes in batches—saving you time and money.	$99, Windows NT 3.5.1 or Windows 95, fax modem. (800) 441-7234. See July 1997, page 174.



REFERENCE AND ENTERTAINMENT CDs

Spin Control: If it ain't 3-D, it's square. MMX and DVD CDs push the limits of older PCs. Time to get that Pentium II you've been lusting after.

Top Pick	The Buzz	The Stats*
Business Reference Rand-McNally Business Traveler's Suite	This four-disc set gets you from city to city, street to street—and directs the weary traveler to the best restaurants and hotels.	$59, Windows 3.1 or Windows 95. (800) 671-5006. See Sept. 1997, page 226.
Home Reference Books That Work Visual Home	Plan that remodeling job on a PC, then move through your plans in real-time 3-D with this MMX title.	$40, Windows 1.31 or later. (800) 757-7707. Stay tuned.
Game UbiSoft POD	Sets the standard for fast-action 3-D racing—at least until the Christmas CDs hit the racks.	$50, Windows 3.1 or Windows 95. (800) 824-7638. See June 1997, page 185.
Entertainment Mindscape Creatures	If you don't have a life, you can have an artificial one with these onscreen critters that reproduce with digital DNA.	$40, Windows 3.1 or Windows 95. (800) 234-3088. See Sept. 1997, page 114.



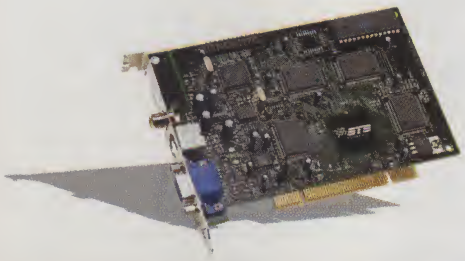
GRAPHICS SOFTWARE

Startling Developments: Turning your PC into a digital darkroom just got easier thanks to personal photo editors like Microsoft's Picture It.

Top Pick	The Buzz	The Stats*
Presentation Graphics Microsoft PowerPoint 97	Spend less time learning the software and more time making your point. New to 97: integrated Web publishing.	$339, Windows 95, NT, or 3.51, 26MB to 58MB hard disk space. (800) 426-9400. See Jan. 1997, page 87.
Personal Desktop Publisher Microsoft Publisher 97	Turns any PC into an instant vanity press. Builds instant Web pages too.	$80, 386 CPU, 8MB RAM, Windows 95 or NT, 6MB to 32MB hard disk space. (800) 426-9400. See July 1997, page 174.
Professional Desktop Publisher QuarkXpress 4.0 for Windows	Quark makes a comeback! Once again it sets the standard for precision publishing.	$590, Windows 95 or NT, 16MB RAM, 40MB hard disk space. (800) 788-7835. See Sept. 1997, page 89.
Business Graphics CorelDraw 7	Whether you design professional ad campaigns or just like to sketch, this is the premier all-in-one graphics toolkit.	$695 list price, ($249 upgrade), 486 CPU, Windows 95 or NT 4.0, 16MB RAM. (800) 772-6735. See Jan. 1997, page 94.
Personal Photo Editor Microsoft Picture It	Picture yourself actually having fun with all those old family photos turning yellow in the closet.	$55, Windows 95, 8MB RAM, 1MB VRAM, 75MB hard disk space. (800) 426-9400. See Jan. 1997, page 97.
Professional Photo Editor Adobe Photoshop 4.0	A digital darkroom for your PC. New to version 4.0 are MMX hooks and built-in Web smarts.	$895 list price, 386 CPU, Windows 95, NT, or 3.*x*, 16MB RAM, 20MB hard disk space. (800) 492-3623. See July 1997, page 174.
Illustration Software Adobe Illustrator 7.0	Illustrator's back with a face-lift, improved features, and flawless integration with Macintosh files and other Adobe apps.	$595 list price, Windows 95 or NT 4.0, 16MB RAM, 25MB hard disk space. (800) 649-3875. See Mar. 1997, page 88.

*ESTIMATED STREET PRICE UNLESS NOTED OTHERWISE.

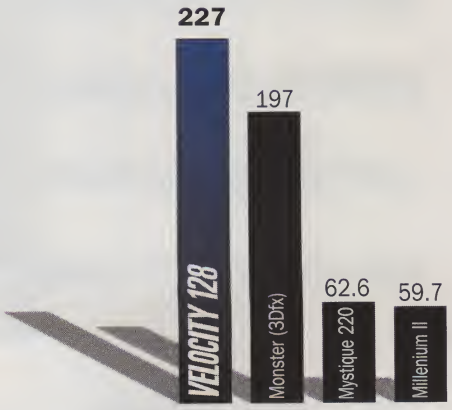
Speed and power are about technology not hype



VELOCITY 128™

- 128-bit 2D/3D multimedia accelerator
- 4MB of 100MHz SGRAM memory
- 1.6 Gigabyte/sec data transfer rate
- 230MHz integrated RAMDAC
- Video out for connection to TV's
- 5 GFLOP setup & rendering engine
- 100 Million rendered pixel/sec fill rate
- 15 Billion pixel operations/sec
- DMA "scatter-gather" bus mastering
- Vertex and texture caching
- X and Y sub-pixel interpolation
- Windows 95 and NT compatible
- Direct3D and OpenGL support
- VESA DDC-2B monitor support
- VESA VBE 3.0 BIOS Support
- Lifetime Warranty

Find STB products at Best Buy, CompUSA, Computer City, CDW, Computability, PC Connection, and in systems from Acer, Compaq, Dell, Gateway 2000, IBM and others



3D Winbench '97 Performance†

Copyright 1997 STB Systems, Inc. All rights reserved. All trade names referenced are the trademarks, service marks, or registered trademarks of their respective holders. †3D WinBench 97 1.0 tests conducted on a Gateway 2000 PII-266 MMX, PCI 2.0 Bus, 512K cache, 64MB SDRAM, 640x480x16 bit bit, at 75Hz refresh without GDI bypass as required for Microsoft certification. Memory and driver versions: STB VELOCITY 128™ (4 MB) Beta2 v1.0 6/30/97, Diamond Monster 3Dfx (4MB) 4.03.00.2108 4/16/97, Matrox Millenium II (4MB) 4.03.00.3600 5/12/97, Matrox Mystique 220 Business (4MB) 4.03.00.3600 5/12/97. Specifications subject to change without notice.

INVENTING THE FUTURE OF SPEED

www.stb.com

STB Systems, Inc.

Circle 363 on reader service card.

A-List

continued from page 72



TOOLS AND UTILITIES

No Excuses: Virus killers from Symantec and TouchStone are easier than ever to use—they do the hard work for you. Free Internet updates too.

Top Pick	The Buzz	The Stats*
Windows 95 System Utility Symantec Norton Utilities 2.0 for Windows 95	**Resuscitate dead files and diagnose hardware problems before they happen. Everyone should have a copy.**	$79, Windows 95, 8MB RAM. (800) 441-7234. See Jan. 1997, page 161.
Windows NT System Utility Symantec Norton Utilities 2.0 for Windows NT	**Keep your servers and workstations humming with the first complete set of system utilities for Windows NT.**	$99, Windows NT 4.0, 16MB RAM. (800) 441-7234. See June 1997, page 130.
Antivirus Software Symantec Norton Antivirus 2.0 for Windows 95	**Stops infections before they happen. And it's your best bet for conquering the nasty Concept virus.**	$49, Windows 95, 8MB RAM, 12MB free hard disk space. (800) 441-7234. See May 1997, page 110.
OCR Software Caere OmniPage Pro 7.0	**Converts scanned pages into editable text or publishes them right to your Web site. It beats typing by hand.**	$499, Windows 95 or NT 4.0, 8MB RAM, 15MB hard disk space. (800) 535-7226. See Apr. 1997, page 167.
File Utility Symantec Norton Navigator	**Picks up where Windows Explorer leaves off. Includes file management and compression and direct Net site access.**	$99, Windows 95, 4MB RAM, 6MB hard disk space. (800) 441-7234. Stay tuned.
Remote-Control Software Traveling Software LapLink 7.5 for Windows 95	**Keep your notebook and desktop PCs on speaking terms: Sync files via a cable or dial your desktop from the road.**	$149, 386 CPU, 8MB RAM, 7MB hard disk space. (800) 343-8080. See Jan. 1997, page 156.
Application Development Tool Microsoft Visual Basic 5.0 Professional Edition	**Visualize better custom apps. This version adds dockable toolbars and the ability to edit multiple projects at once.**	$499, Windows 95 or Windows NT, 30MB to 220MB hard disk space. (800) 426-9400. See June 1997, page 125.



WEB BROWSERS AND UTILITIES

Push Isn't the Point: It's content that really counts. Get custom news feeds and stock quotes delivered to your desktop with PointCast Network 2.0.

Top Pick	The Buzz	The Stats*
Web Browser Microsoft Internet Explorer 3.0	**Microsoft's browser includes most of what you'll find in Netscape's browser suite—and it's free.**	Free, Windows 95 or Windows NT. (800) 426-9400. See Jan. 1997, page 172.
Internet Utility PointCast Network 2.0	**Don't wait for the news—let it come to you via the Net with this free custom news fetcher.**	Free, Windows 95 or Windows NT. (408) 990-7000. See Aug. 1997, page 125.
Newsgroup Reader Forté Agent 1.5	**Sort the gems from the junk with this smart newsreader. For a gratis pared-down version check out Free Agent.**	$29, Windows 3.1, Windows 95, or Windows NT. www.forteinc.com. Stay tuned.
Offline Browser Traveling Software WebEx 2.0	**Surf the Web on your time: Download your favorite sites and browse them offline without the wait.**	$50, Windows 95 or Windows NT 4.0, Internet access. (800) 343-8080. See May 1997, page 134.



WEB SEARCH ENGINES AND SERVICES

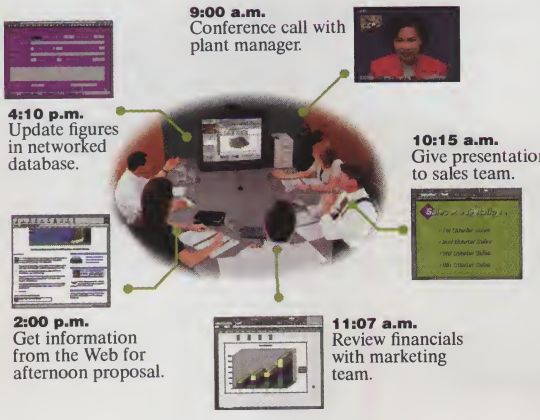
Bookmark This: If it's out there, you'll find it faster with HotBot, winner of *PC Computing*'s Search Engine Challenge. Runner up? Excite.

Top Pick	The Buzz	The Stats*
Search Engine HotBot	**So the neon interface is a little obnoxious. It still ferrets out hard-to-find answers in record time.**	Free, www.hotbot.com. See Sept. 1997, page 196.
Search Utility Iconovex EchoSearch 2.0	**The first Java-based metasearch tool just got better with personalization features, smart agents, and relevance ranking.**	$29, Windows 3.1, Windows 95, or NT. (800) 943-0292, www.iconovex.com. Stay tuned.

*ESTIMATED STREET PRICE.



©1997 Intel Corporation.



Don't settle for a one-trick system.

Most group video conferencing systems do primarily one thing—video conferencing. Unless you're looking at Intel's TeamStation™ System.

TeamStation System is built around a Pentium® II processor-based PC. Now over the course of a day, your team can hold a video conference with a plant manager in the morning, review financials with the marketing team at midday, and get information from the Web for a proposal in the afternoon.

So call 800-538-3373, ext. 254 and ask about a demo. Or visit Intel on the World Wide Web for a look at a group video conferencing system that gives you more. ► www.intel.com/proshare/conferencing/demo

intel®

continued from page 74

WEB SEARCH ENGINES AND SERVICES continued

Top Pick	The Buzz	The Stats*
National Online Service America Online	Still the world's most popular and useful online service. Can't stand the wait? Sign up with an ISP.	$9.95 per month for unlimited AOL access, $19.95 per month for unlimited access. (800) 827-6364. See Mar. 1997, page 282.
National Internet Service Provider UUNET	Get global or national hosting from the biggest, oldest, and best ISP for businesses. Just in: support for DSL.	$30 per month for 25 hours, Web hosting starts at $300 per month. (800) 488-6383, www.uunet.com. Stay tuned.
News Service Individual NewsPage	Build yourself the ultimate personalized news page with Individual NewsPage, a free, Web-based news service.	Free, www.newspage.com Stay tuned.
Financial Service The Daily Rocket Company Investment Monitor	Surf the site or download a personalized push client and stay up-to-date on all your financial investments.	Free, (888) 244-2646, www.dailyrocket.com. Stay tuned.



WEB COMMUNICATIONS

Fourth Time's the Charm: Netscape and Microsoft are backing HTML 4.0. What's in it for you? Better dynamic Web pages and smarter push content.

Top Pick	The Buzz	The Stats*
Internet E-mail Qualcomm Eudora Pro 3.0	Some things are worth paying for—like Eudora Pro's industrial-strength e-mail management.	$89, Internet access. (800) 238-3672. Stay tuned.
Internet Phone Microsoft NetMeeting 2.0	Yak all you want—it won't cost a dime if you place your calls on the Net. Also includes file sharing and collaboration.	Free, Windows 95 or Windows NT. (800) 426-9400. See Feb. 1997, page 133.
Internet Fax NetCentric FaxStorm	The software's free and you pay just pennies to send and receive faxes via the Net. Try it while it's still legal.	Free download, 15 cents per minute for domestic faxes. (888) 767-9273. See July 1997, page 174.
Internet Videoconferencing White Pine Software CU-SeeMe 3.0	Get face time on the Web and hold multipoint conferences. Coming soon: a version with support for more standards.	$99, $69 download. (800) 241-7463. See Feb. 1997, page 155.



WEB DEVELOPMENT TOOLS

Easy Money: Set up shop on the Web and be in business in a matter of hours. Microsoft's Site Server almost makes it look easy.

Top Pick	The Buzz	The Stats*
Web Publisher Microsoft FrontPage 98	The only Web publishing site that wraps hand-holding wizards around powerful site creation, management, and tools.	$149 ($55 upgrade), Windows 95 or Windows NT. (800) 426-9400. Stay tuned.
Web Server Software Microsoft Internet Information Server	The fastest NT Web server software we've seen. And it's free for NT Server owners.	Free for NT Server users, Windows NT 4.0, 486 CPU, 16MB RAM. (800) 426-9400. See Jan. 1997, page 177.
Site Management Utility EveryWare Development WebAnalyzer 2.0	Fix broken links and manage your site quickly and visually. The easiest way to keep your site fresh and popular.	$250, generates HTML reports, Windows 95 or Windows NT. (905) 819-1173. See Apr. 1997, page 124.
Commerce Server Microsoft Site Server	Everything you need to serve up a super-selling site on the Web in a matter of hours. Really.	$1,499, Windows NT 4.0. (800) 426-9400. See this issue, page 164.
Web Animation Software Macromedia Flash2	Want to get your Web site moving without making it too big? Flash2 creates interactive animations in as little as 3K.	$199, Windows 95 or Windows NT, 486 CPU, 16MB RAM. (800) 457-1774. See July 1997, page 148.
Java Development Symantec Visual Café	Build applets any way you want. Get into brute-force scripting, or crank out applets in minutes using Café's visual tools.	$199, Windows 95 or NT, 386 CPU, 12MB RAM, 20MB to 30MB hard disk space. (800) 441-7234. See Apr. 1997, page 126.

*ESTIMATED STREET PRICE.



Juiced Up.

Call now to order.
800-362-7309
www.micronpc.com

MICRON ELECTRONICS™

CONFIGURED FOR YOUR LIFE

Pick Micron.

We've got the best computers in the bunch.

At Micron, we know you want the freshest technology out there. So our engineers are continually devising new ways to make our award-winning PCs smarter, faster and more fun. Whether you use your computer for home or business, we've got a system for you. And you'll never find a lemon in the bunch. Our components go through rigorous quality-assurance testing, and all Micron™ products conform to the highest industry certification standards.

When you pick Micron, you can custom configure a system that fits your specifications – so it's homegrown, not mass-produced. Pick Micron and you'll get the steadfast 24-hour customer support that we're famous for. And when you pick Micron, you're getting one of the best limited warranties in the business from one of the best companies in the industry.

So pick Micron today. It'll be good for you.

Portables

Lots of zing.



The Micron TransPort™ Series. Notebooks with real bite.

What's small, sweet and gives you a lot of punch?

A Micron TransPort notebook, of course. Our outstanding line of portable PCs offers impressive flexibility, tempting prices and the hottest features on the market.

High-end users will love our TransPort XKE. A true desktop replacement, we've loaded our XKE with a high-performance graphics accelerator, active matrix screen, upgraded CD-ROM, tons of memory and more. Our TransPort XPE fits the bill if you're looking for a top-grade computer for home, office or travel. And our TransPort VLX offers flexibility and sleek styling for a more-than-palatable price.

So pack a little punch. Try our TransPort notebooks.

MMX™ intel inside pentium® processor

Call now to order.

800-362-7309

www.micronpc.com

MICRON ELECTRONICS™

CONFIGURED FOR YOUR LIFE

Like peas in a



The Micron Vetix™ and ClientPro® Series. Solutions for a healthy network.

Need solutions for your growing network?

If you can dish it out, our systems can take it. Our ClientPro PCs and Vetix servers effortlessly get your network running – and keep it running.

We pack our hardy Vetix MXI chock-full of features, like redundant power supplies and high-degree, fault-tolerant components including swappable hard drives. And we made our entry-level LXI models expandable, reliable and tough.

Complement your server with our ClientPro desktops. We've designed them to be easy to set up, easy to upgrade and easy to network. That means you reduce potential downtime and lower your total cost of ownership. And if you have networking questions – your answers are just a phone call away. That's what our unwavering customer support is all about.

This powerful pair makes networking easy. And that's a pretty sweet dish.

pod.

Business Solutions



The Micron Powerdigm™ sets a sizzling pace.

The Powerdigm XSU revolutionizes the workstation with Micron's engineered and developed Samurai™ chipset. A powerful, Intel-processor based workstation, the Powerdigm XSU executes demanding business and technical tests with command, and it's flexible enough to run popular PC programs.

Micron is the only company to offer the innovative Samurai chipset. With support for dual monitors, dual Pentium® II processors, ultra-wide SCSI-3 and speedy 10/100 network adapters, the Powerdigm sizzles with features the competition is still dreaming about. You'll see the results in graphic design, digital imaging, financial analysis, CAD and more. The Powerdigm XSU, featuring the new Samurai chipset, takes workstation performance to new levels with 66MHz/64-bit PCI, enhanced memory and I/O subsystems.

intel inside
PENTIUM® PRO PROCESSOR

Call now to order.
800-362-7309
www.micronpc.com

MICRON ELECTRONICS™

CONFIGURED FOR YOUR LIFE

Extra hot.



The Micron Millennia® Series adds kick.

Our powerful new Millennia XKU packs a Pentium® II processor featuring MMX™ technology, while the Millennia MME has a Pentium processor with MMX technology. Both offer 3D video, MPEG, and 24X EIDE CD-ROM and more - so you can dish up the most intense games and Internet sites.

If you want even more sizzle to your gaming experience, add our Fusion3D option, which includes DVD software, Monster 3D graphics card, AWE 64 PCI sound card and a two speaker satellite with a subwoofer stereo system, plus five intense multimedia computer games.

Now when you buy a Millennia, you can choose one of four feature-packed software bundles to be preinstalled in your system - at no extra cost!

Quicken Financial helps you organize personal finances — from money management to estate planning. Young children learn lots from computer games with the **EdVenture Pack**. Fun titles, fun songs, fun games ... and lots of learning Get your fill of intense multimedia and entertainment applications with the **Multimedia Xcitement** package - call for current titles and details. And the **Home Productivity Pak** offers games and reference tools for the entire family.

One of these four packages is standard with your new Millennia. Additional bundles are only $69 each, as is the upgrade to our Academic Bundle, which includes useful references and information for students.

Or, upgrade to our Small Business Essentials package for only $249. This must-have bundle for small businesses includes titles you can use every day.

Hot enough for you?

MMX™ intel inside pentium®

Performance

MICRON™ MILLENNIA® XKU

Intel 300MHz Pentium® II processor (features MMX™ technology)
128MB SDRAM
8.1GB Ultra ATA hard drive
17" Micron 700FGx, .26dp (16.0" display)

STANDARD FEATURES

82440LX chipset
512KB internal L2 cache, 2MB BIOS
100MB Iomega Zip drive, 3.5" floppy drive
24X EIDE variable speed CD-ROM drive
32 voice wavetable stereo sound, powered speakers with subwoofer
USR Sportster 56K x2 data/fax modem**
AGP 128-bit 3D video with 4MB SGRAM
Microsoft® Intellimouse™, USB connections
Microsoft Windows® 95 and MS® Plus!
Microsoft Office 97 Small Business Edition
Choice of Micron Software Solutions Pak
5-year/3-year Micron Power℠ limited warranty

$3,999
Bus. lease $140/mo.

MICRON MILLENNIA MME 200

Intel 200MHz Pentium processor with MMX technology
48MB SDRAM
4GB Ultra ATA hard drive
17" Micron 700FGx, .26dp (16.0" display)

STANDARD FEATURES

512KB pipeline burst cache, flash BIOS
3.5" floppy drive
100MB Iomega Zip drive
24X EIDE variable speed CD-ROM drive
32 voice wavetable stereo sound with speakers
USR Sportster 56K x2 data/fax modem**
PCI 64-bit 3D video, MPEG, 4MB EDO DRAM
Microsoft Intellimouse, USB connections
Microsoft Windows 95 and MS Plus!
Microsoft Office 97 Small Business Edition
Choice of Micron Software Solutions Pak
5-year/3-year Micron Power limited warranty

$2,299
Bus. lease $78/mo.

MICRON MILLENNIA LXE 166

Intel 166MHz Pentium processor with MMX
16MB EDO RAM
3.2GB EIDE hard drive
15" Micron 500FGx, .28dp (13.7" display)

STANDARD FEATURES

512KB pipeline burst cache, flash BIOS
3.5" floppy drive
16X EIDE variable speed CD-ROM drive
16-bit stereo sound and speakers
PCI 64-bit 3D video, MPEG, 4MB EDO RAM
Microsoft Mouse, USB connections
Microsoft Windows 95 and MS Plus!
Microsoft Works
Choice of Micron Software Solutions Pak
5-year/3-year Micron Power limited warranty

$1,499
Bus. lease $56/mo.

MICRON SOFTWARE SOLUTIONS PAKS†

Quicken Financial Pak: Quicken Deluxe 6, Family Lawyer, Parent's Guide to Money, Financial Planner
EdVenture Pak: Thinkin' Things #2, Sheila Rae The Brave, Reader Rabbit's Reading #1, Freddie Fish: Missing Kelp Seeds, Putt-Putt Saves the Zoo
Multimedia Xcitement Pak: (MMX enhanced titles, call for details)
Home Productivity Pak: Family Doctor, Comptons Encyclopedia 1997, Mavis Beacon Teaches Typing, Printshop Ensemble, Net Nanny, Crayola Magic 3D
Academic Bundle: Merriam Webster's Collegiate, Word Smart, Grolliers Encyclopedia, Student Reference Library, Quicken SE, Hoyle Classic Games

Choice of one Solutions Pak with purchase of Millennia system. Pick an additional bundle for only . . .

$69

MICRON FUSION3D OPTION PAK

DVD-ROM*, DVD software
E4 Cool DVD PCI docoder card: 6 channel AC-3 2 channel out capability, SPDIF output (digital audio out)
AWE 64 ISA sound card
Cambridge SoundWorks/MicroWorks
2 speaker satelite with subwoofer stereo system
Monster 3D graphics card with 4MB memory
Fusion3D game pak:
Mech Warrior 2; Mercenaries 3Dfx version, AH-64D Longbow,
U.S. Navy Fighters '97, Command & Conquer, Popular 3Dfx Racing Sim
Microsoft Sidewinder Pro joystick

Available on Millennia MME and XKU systems only.

XKU add **$649**
MME add **$699**

*The CD-ROM drive will be removed upon the purchase of the DVD upgrade.
**Maximum transmission speed of up to 56Kbps when downloading data and 33.6Kbps when uploading. However, actual performance is dependent upon numerous factors and transfer rates may be less than the maximum potentials.
† Available only on Millennia systems with Microsoft Windows 95.

Call now to order.
800-362-7309
www.micronpc.com

MICRON ELECTRONICS™

CONFIGURED FOR YOUR LIFE



MICRON VETIX LXI-N SERVER

Intel 200MHz Pentium Pro processor
32MB ECC EDO RAM
2GB Ultra Wide SCSI-3 hard drive
15" Micron 15FGx, .28dp (13.7" display)

STANDARD FEATURES

Dual Pentium Pro ZIF sockets
256KB integrated L2 cache
Memory upgradable to 1GB (8 DIMM slots)
5 PCI, 2 ISA, 1 shared ISA/PCI, 9 drive bays
Integrated Adaptec PCI Ultra-Wide SCSI-3 controller
Integrated Intel EtherExpress™ Pro 100 controller
Integrated SVGA graphics
12X SCSI-2 CD-ROM drive
3.5" floppy drive
Dedicated server technical support, 7x24
5-year/3-year Micron Power limited warranty
1-year next-business-day on-site service†

$2,999
Bus. lease $102/mo.

MICRON VETIX MXI SERVER

Intel 200MHz Pentium Pro processor
128MB ECC EDO RAM
Three 4GB Ultra-Wide SCSI-3 hard drives (12GB total)

STANDARD FEATURES

256KB integrated L2 cache
Dual Pentium Pro ZIF sockets
Memory upgradable to 1GB (8 DIMM slots)
8 open expansion slots: 5 PCI, 2 ISA, 1 shared ISA/PCI
Integrated Adaptec PCI Ultra-Wide SCSI-3 controller
Integrated Intel EtherExpress Pro 100 controller
12X variable speed SCSI CD-ROM drive
5 internal, hot-swappable, hard drive array bays (upgradable to 10)
3 external 5.25" media bays
1 (one) 330 watt power supply standard (upgradable to 3 for added redundancy)
Microsoft Windows NT Server 4.0 (10-user license)
Intel LANDesk Server Manager 2.52
Dedicated server technical support, 7x24
5-year/3-year Micron Power limited warranty
1-year next-business-day on-site service†
NOS Support (3 incident resolutions/ 1st year), 7x24

$7,999
Bus. lease $251/mo.

† On-site service for the Vetix server is provided by Digital Equipment Corporation and is optional.

MICRON TRANSPORT XPE

150MHz Mobile Intel Pentium processor with MMX
32MB EDO RAM (80MB max)
1.4GB removable hard drive
12.1" active matrix color display, 800x600

STANDARD FEATURES

256KB L2 pipeline burst cache
PCI graphics accelerator, 2MB VRAM
8X modular CD-ROM drive
Pick-a-Point™ dual pointing devices
Micronphone and 16-bit stereo sound
Motorola Montana 33.6 fax/modem
CardBus- and zoomed video-ready
2 infrared ports, S-video, NTSC, game port
Management and Executive Travel software pak
2 modular expansion bays
Custom nylon carrying case
Microsoft Windows 95 and MS Plus!
Microsoft Office 97 Small Business Edition CDs
5-yr/3-yr Micron Power limited warranty

$3,499
Bus. lease $119/mo.

MICRON TRANSPORT XKE

233MHz Mobile Intel Pentium processor with MMX
48MB EDO RAM
3GB removable hard drive
13.3" TFT XGA display

STANDARD FEATURES

512KB L2 pipeline burst cache
128-bit 2MB DRAM graphics
20X modular CD-ROM drive with AutoPlay™ technology
Pick-a-Point dual pointing devices
Microphone and 16-bit stereo sound
Integrated 33.6 modem, full duplex
CardBus-and zoomed video-ready
2 infrared ports, S-video, NTSC, game/MIDI port, USB
Management and Executive Travel software pak
2 modular expansion bays
Custom nylon carrying case
Microsoft Windows 95 and MS Plus!
Microsoft Office 97 Small Business Edition CDs
5-yr/3-yr Micron Power limited warranty

$5,899
Bus. lease $185/mo.

Sweet deals.

MICRON CLIENTPRO MTE

Intel 166MHz Pentium processor with MMX technology
32MB EDO RAM
2.1GB SMART EIDE hard drive
15" Micron 500FGx, .28dp (13.7" display)

STANDARD FEATURES

512KB pipeline burst cache, flash BIOS, DMI Support
3.5" floppy drive
3Com 3C905 network adapter
Integrated S3 ViRGE/DX graphics accelerator, 2MB EDO RAM
Integrated wavetable sound
Tool-free minitower or desktop
Microsoft Intellimouse
Microsoft Windows 95
Intel LANDesk® Client Manager
5-year/3-year Micron Power limited warranty

$1,549
Bus. lease $53/mo.

MICRON CLIENTPRO XLU

Intel 233MHz Pentium II processor with MMX technology
32MB EDO RAM
2.1 GB SMART EIDE hard drive
17" Micron 700FGx, .26dp (16.0" display)

STANDARD FEATURES

512KB internal L2 secondary cache, DMI support
3.5" floppy drive
16X EIDE variable speed CD-ROM drive
3Com PCI 10/100 ethernet NIC
PCI 64-bit 3D video, MPEG, 4MB EDO RAM
Upgradable wavetable audio with speakers
Microsoft Intellimouse
Microsoft Windows NT Workstation
Intel LANDesk Client Manager
5-year/3-year Micron Power limited warranty

$2,549
Bus. lease $87/mo.

MICRON POWERDIGM XSU

Dual Intel 300MHz Pentium Pro processors
64MB ECC SDRAM
Fire GL 1000 pro 8MB 66MHz PCI Open GL Professional 3D accelerators
4GB Ultra-Wide SCSI-3 hard drive
19" Hitachi SuperScan CM751 (18" display) .26dp color monitor

STANDARD FEATURES

12/20 variable speed SCSI CD-ROM drive
Memory upgradable to 1GB ECC SDRAM
Supports multiple Ultra-Wide SCSI-3 hard drives
DMI, software and hardware management support
Iomega Jaz SCSI drive with 1GB removable cartridge
Wavetable stereo sound with speakers
Fast Ethernet 10/100 PCI network adapter
Microsoft Intellimouse
Microsoft Windows NT® Workstation
5-year/3 year Micron Power limited warranty

$6,199
Bus. lease $195/mo.

MICRON TRANSPORT VLX

133MHz Intel Pentium processor
16MB EDO RAM (40MB max.)
1.4GB hard drive
16X modular CD-ROM drive
Li-Ion battery
12.1" TFT SVGA, 800x600 display

STANDARD FEATURES

256KB L2 pipeline burst cache
PCI bus with 128-bit graphics accelerator
MPEG compatible
Zoomed video-ready
Touchpad pointing device
Microphone and 16-bit stereo sound
2-way infrared port
Modular floppy drive
Microsoft Windows 95 and MS Plus!
5-year/1-year Micron limited warranty

$2,249
Bus. lease $77/mo.

Appealing options.



MULTIMEDIA OPTIONS

AWE 64 ISA Sound card upgrade	$99
Advent AV270 Powered Partners stereo speakers	$79
Advent AV370 Powered Partners stereo speakers with subwoofer	$199
Microsoft SideWinder 3D Pro joystick	$59
Microsoft SideWinder gamepad	$39

STORAGE/MEDIA OPTIONS

Adaptec 2940U Ultra SCSI Fast-20 controller (upgrade from system with standard Ultra SCSI Fast-20 controller)	$100
Plextor 12/20 Plex 3MB/sec SCSI internal CD-ROM drive (upgrade from system with standard EIDE CD-ROM drive)	$100[1]
Iomega Jaz SCSI drive with 1GB removable cartridge	$299[1]
Iomega ZIP IDE drive with 100MB removable cartridge	$99
Iomega 6-pack of 100MB Zip cartridges	$99
Iomega 3-pack of 100MB Zip cartridges	$49
Sony 4/8GB SCSI DDS-2 tape backup drive with tape and software	$899[1]
Cheyenne ARCserve with InocuLAN (for servers)	$499
Mylex dual channel Ultra-Wide SCSI-3 RAID caching controller with 4MB ECC RAM	$899

COMMUNICATION OPTIONS

33.6 external data/fax modem	$299
56Kbps technology modem**	$99

NETWORKING OPTIONS

3Com 3C509B Etherlink III ISA combo network adapter	$79
3Com 3C900 EtherLinkXL PCI combo network adapter	$99
3Com 3C905 Fast EtherLinkXL 10/100 PCI TPO network adapter	$99
3Com OfficeConnect Hub 8/TPC	$149
3Com OfficeConnect Switch 140	$969

SOFTWARE OPTIONS

Small Business Essentials: QuickBooks, Visio, Norton AntiVirus, Astound, Focal Point, American Yellow Pages	$249
CorelDRAW 7 (full retail version)	$299
Corel WebMaster Suite (full retail version)	$99
Novell Intranetware 4.11, 5-user license, (for Vetix Lxt-n only)	$699

HP PRINTERS

HP DeskJet 692c printer	$319
HP DeskJet 870Cxi printer	$419
HP LaserJet 6Lxi printer	$429
HP LaserJet 6P printer	$799

DISPLAY/VIDEO OPTIONS

17" Hitachi SuperScan CM630 (15.9" display) .26dp color monitor	$100[2]
21" Hitachi SuperScan CM801 (20.0" display) .26dp color monitor	$650[2]
Number Nine Imagine 128 series II video card, 4MB VRAM	$299[3]
Number Nine Imagine 128 series II video card, 8MB VRAM	$549[3]

TRANSPORT OPTIONS

MicronDock™ multimedia port replicator: ethernet 10BT LAN adapter, SCSI-2 port, S-video and NTSC-video output, built-in stereo speakers, infrared port, headphone, microphone, line-in jacks, parallel, serial, VGA and 2 PS/2 ports (with warm dock and built-in game port - available on XPE models only)	$299
Micron Executive™ desktop package: matching black 17"monitor (16.0" display), mouse, mousepad and keyboard (can be used with or without MicronDock)	$699
Motorola Montana 33.6 fax/modem supports regular telephone connections, cellular phones and two-way paging devices	$259

SCANNER OPTIONS

HP Scanjet 5s sheetfed scanner	$209
HP Scanjet 5p flatbed scanner	$309
HP Scanjet 4c flatbed scanner	$759

DESKTOP EXTENDED SERVICE OPTIONS

Optional 1st year on-site service[4] coverage included	
2nd year on-site service[5] coverage	$79
2nd and 3rd year on-site service[5] coverage	$99

Other service options may be available, ask your system consultant

SERVER EXTENDED SERVICE OPTIONS

2nd and 3rd year next-business-day[6] on-site service coverage[5]	$99
4-Hour response[7] on-site service coverage[5] (8am-5pm, M-F), 3 years total	$798
4-Hour response[7] on-site service coverage[5] (24-hours, 7 days per week), 3 years total	$998

Other service options may be available, ask your system consultant

NOTEBOOK EXTENDED SERVICE OPTIONS (Vlx only)

2nd and 3rd year parts and labor[6]; 3-business-day turnaround for 3 years	$269
2nd and 3rd year parts and labor[6]; 7-business-day turnaround for 3 years	$209

OTHER OPTIONS

APC Per7T surge suppressor	$39
APC Pro7T surge suppressor	$59
APC Smart-UPS 700 with PowerChute plus software	$389
APC Smart-UPS 1000 with PowerChute plus software	$529
Microsoft Natural Keyboard (upgrade from standard keyboard)	$49

[1] Requires SCSI host adapter
[2] Upgrade from system with standard Micron 17" 700FCx (16" display) color monitor
[3] Upgrade from systems with standard 64-bit 4MB video card
[4] 1st year on-site service is available in the United States and in limited areas in Canada from third-party service provider per customer's agreement with provider
[5] 2nd year and 2nd and 3rd year offerings are available in the United States only. Extended services, if purchase after system shipment may have a higher cost.
[6] Services will be scheduled, whenever possible, for the next business day after parts are received by the customer.
[7] Available in certain locations, ask your system consultant for details.
Some options and accessories available with system purchase only

*Available only on desktop and notebook systems with Microsoft Windows 95.
**Maximum transmission speed of up to 56Kbps when downloading data and 33.6Kbps when uploading. However, actual performance is dependent upon numerous factors and observed transfer rates may be less than the maximum potentials.

Call now to order.

800-362-7309

www.micronpc.com

MICRON POWER™ WARRANTY

- 5-year limited warranty on microprocessor and main memory
- 3-year limited parts-only system warranty (1-year for TransPort VLx)
- 1-, 2- or 3-year optional on-site service agreement for Micron desktop and server systems
- 30 days of free Micron-supplied software support for Micron desktop systems; 3 optional network operating system incident resolutions included for Micron server systems
- 30-day money back policy
- 24-hour technical support

The foregoing is subject to and qualified by Micron's standard limited warranties and terms and conditions of sale. Terms and conditions of sale may vary for specific configurations. Copies of the limited warranties may be obtained on our Web site or by calling Micron.

Micron Sales Hrs: Mon-Fri, 6 am-10 pm, Sat, 7 am-5 pm (MT) Technical Support Available 24 Hours A Day, 7 Days A Week
Toll free from Mexico: 95-800-708-1755
Toll free from Canada: 800-708-1758 • Toll free from Puerto Rico: 800-708-1756 • International Sales: 208-893-8970 • International Fax: 208-893-7393

MICRON ELECTRONICS™

©1997 Micron Electronics, Inc. All rights reserved. Micron Electronics is not responsible for omissions or errors in typography or photography. All purchases are subject to availability. Prices and specifications may be changed without notice; prices do not include shipping and handling and any applicable taxes. 30-day money-back policy does not include return freight and original shipping/handling charges, applies only to Micron brand products and begins from date of shipment. All sales are subject to Micron Electronics' current terms and conditions of sale. Lease prices based on 36-month lease. The Intel Inside Logo and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. Microsoft, Windows, Windows NT and the Windows logo are registered trademarks of Microsoft Corporation. Other product names used in this publication are for identification purposes only and may be trademarks of their respective companies.

CONFIGURED FOR YOUR LIFE

Create a CD on your PC with the Philips CD-ReWritable Drive.



The new Philips CD-ReWritable Drive lets you save your world. Store your data, sound, videos, pictures, drawings, files. You name it — and you can save it on a 650 MB Compact Disc. Plus the disc that you create can work on CD-ROM or DVD-ROM drives. The Philips CD-ReWritable Drive is affordable too. Now send CDs of things that matter to you to people who matter to you. For more information: http://www.philips.com



PHILIPS

Let's make things better.

This product is not intended for the unlawful copying of copyrighted material.

©1997 Philips Electronics North America Corporation

1. The "V" Is For:

- ☐ Vivid Color
- ☐ Value
- ☐ *Vroom!*
- ☑ all of the above.

MICROTEK ScanMaker V300

New Lower Price $149!
Suggested Street Price. Was $229



- *24-bit color • Single-Pass*
- *300 x 600 dpi optical resolution / 4800 dpi enhanced*

The all new 24-bit color flatbed scanner from MICROTEK, the most trusted name in desktop scanning, features the New FlexScan™ Lid, Zero Reflection Design Technology™ and a Parallel Port interface (for Windows models) for quick and easy set up. All this and great software for just $149 (suggested street price)! For more information, contact your nearest MICROTEK reseller, or MICROTEK at 1-800-654-4160 or visit our Web site at www.microtekusa.com.



INCLUDES:

- *MICROTEK's award-winning ScanWizard™*
- *Ulead iPhoto Express photo-fun software for making greeting cards, calendars, and more (Windows models)*
- *MicroFrontier's Color It! image editing and paint software (Macintosh models)*
- *Caere's OmniPage Limited Edition OCR software for scanning and converting pages of text into editable files*
- *Document management software (Windows models)*

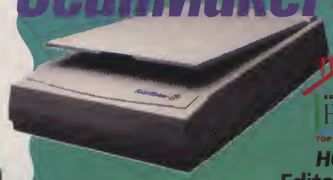
Also from MICROTEK:

Color PAGEWIZ



24-bit color sheetfed scanner. Captures photos or documents in seconds. Quick and easy Parallel Port connection (for Windows models). Small, light-weight, and portable. Includes image editing, OCR and document management software. Only $159 (suggested street price)!

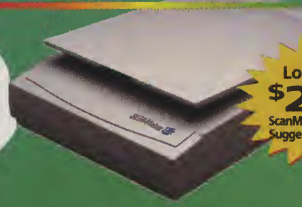
ScanMaker E3



HOME PC Editors' Choice!

Quite possibly the best-selling 24-bit color flatbed scanner on the market. Winner of numerous awards and accolades. Features a large scan area, image editing, OCR software, and ScanWizard. Only $199 (suggested street price)!

ScanMaker E6



New Lower Price $299!
ScanMaker E6 standard Suggested Street Price. Was $359

The high resolution 30-bit ScanMaker® E6 color flatbed scanner featuring superb detailed image quality is only $299 (suggested street price)! Pro models include the full-version of Adobe Photoshop and Xerox TextBridge Pro OCR software (suggested street price $559) also available.

MICROTEK
Better Images Through Innovation.
www.microtekusa.com.

Prices mentioned are United States suggested street prices. Bundled software on CD-ROM / retail packaging depicted is not available with these products.
All products mentioned are trademarks or registered trademarks of their respective holders. Caere Corporation (1-800-535-7226). Prices, specifications and software bundles are subject to change without notice. V3CS97

Believe It

Santa Claus. The Easter Bunny. The Tooth Fairy. Tinkerbelle. Alien abductions. Recovered memory syndrome. Creationism. Ghosts. Angels. Pyramid power. ESP. Crystals. Psychic detectives. Mediums. Dowsing. Palmistry. Astrology. Auras. World peace. Do you believe what some people actually believe in? Good grief. OK, some of this is just good clean fun, but after 10,000 years of civilization it's amazing how much crackpot crapola still enslaves the faithful. By the way, did you hear they removed the word *gullible* from the dictionary?



Paul Somerson

Windows is like the tangled pipes and wires beneath **Manhattan,** an infrastructure **nightmare.**

(This doesn't even scrape the bottom of the alt.paranoia crowd that thinks Martians run the stock market, World War II didn't happen, and NASA is just a CIA-backed special-effects TV studio run by one-world robots crop-dusting us all with mind-control drugs from black helicopters.)

But all these hustles are just chump change compared to the big anti-Wintel Con. Swindlers, grifters, flimflam artists, scam-meisters, and snake-oil salesmen just fold their tents and slink away into the night when the Microsoft-hating hucksters hit town. Here's their pitch:

Apple's Back! It's sad to kick this cadaverous nag one more time, but the gleeful Mac Flack over Steve Jobs's return is just too loud to ignore. Jobs is a smart guy, and even after a long, slow exodus of talent, Apple has some great technology and a dedicated, hardworking team. But their marketing is from hunger, and Jobs is still too hung up on his beloved hardware. Fuggetaboutit. Apple systems are nothing special. It's the software and GUI that made the company. The first Mac was kinda cute, but imagine if instead of the Mac OS it had run DOS (or even an early version of Windows). Toast. If Jobs pours resources into new me-too boxes that Dell and Gateway and Micron can blow into the weeds, he's finished.

Ditto with operating systems. Even though Windows is still a usability fiasco, it's way too entrenched, sort of like the tangle of ancient pipes and wires beneath Manhattan—an infrastructure nightmare that's constantly breaking but nobody wants to tear up the whole city and replace it, so they just keep patching it and adding on.

There is still one opportunity left for Apple. It could create insanely great Windows apps. Unless you're doing just the most basic stuff, all popular applications today are way too hard to use. Doing anything graphical or multimedia-rich or tricky is next to impossible. Jobs could create astonishing software that made it all brain-dead easy. But he won't. Watch for more so-what boxes and oily Apple hype. The end.

Here Come the NCs! It's an MIS dream—cheap, diskless, zero-administration systems that workers can't screw up. The NC backers are out there in force, working the rubes.

What's wrong with this picture? Plenty.

You'd think the goal of MIS departments would be to improve productivity, and in some rare companies this is the case. In most places, however, the real MIS mission is strictly to avoid hassles and complaints and keep their jobs. Adding cool new hardware and hot software upgrades would make workers more productive, but it drives MIS guys nuts. They'd much rather stick with stale old versions of everything that they know how to install and fix. Users of NC boxes trapped in the past like this would rebel.

Another snag is that the actual NC spec is way too crippled and basically useless. The only way to sell these puppies is to beef them up with things like local disks and more memory. The few companies that are doing interesting NC machines are packing in so much extra stuff that users may want to buy cheap Windows strippers instead.

Then there's the write-once Java myth. Developers can create one Java app that'll run everywhere. It's a good story, but it just ain't so.

But the biggest scam is that the whole NC house of cards is based on running over networks that don't go down. Yeah right. Don't believe it.

E-mail somerson@zd.com

PHOTOGRAPH BY DAVID PERRY

Someday, we'll all invest this way.℠

15 YEARS AGO, WE CREATED ONLINE INVESTING WITH ONE PURPOSE IN MIND: To give the individual investor more power and control. To put the tools of investing into your hands. Now, millions of transactions later, E*TRADE is continuing to topple the old ways of doing things.

The tools of the trade.

YOU GET FREE QUOTES, CHARTS, EARNINGS ESTIMATES and up-to-the-minute news. Equally important, we give you the tools to easily customize this information for your own personal needs.

From $14.95 a trade. Because you're in this to make money.

AT E*TRADE, WE OFFER drastically lower prices than traditional — or even discount — brokers. What's more, you can place trades 24 hours a day — by phone or PC. And you can access our Web site directly through AOL, CompuServe, Prodigy, MSN or WebTV.

Give your stockbroker more time to think up those sick jokes.

IF YOU'RE FED UP with high commissions, tired of inconvenient hours or frustrated by limited research and analysis, call 1-800-STOCKS-3 for a free information kit. Or visit our Web site at www.etrade.com.

You do the math. Compare:

	E*TRADE	e.Schwab	Schwab	Merrill Lynch
Trade by phone 800 listed shares @ $20	$14.95	$117.36	$117.36	$324.00
Trade via PC (Web) 800 Nasdaq shares @ $20	$19.95	$29.95	$104.32	Not Available
Price Charts and fast-breaking news	Free	Free	Free	Free
Free access to fundamental data and earnings estimates	Unlimited	Limited	Limited	Unlimited

Some firms may offer discounts and services not available at E*TRADE. Limit and stop orders are $19.95. For listed orders over 5,000 shares, add 1c/share to the entire order. Add $15 for broker-assisted trades. Orders execute during market hours. Comparative rates are based on a 7/29/97 phone survey. No connect fees for web access. Direct modem and Touchtone connect fees are 27c/minute, but with 12 free minutes per trade, you may pay nothing.

© 1997 E*TRADE Securities, Inc. Member NASD, SIPC.

MPCCP97

www.etrade.com

Call 1-800-STOCKS-3

E*TRADE® Someday, we'll all invest this way.℠

Circle 201 on reader service card.

We Know Where You Live

Let's say you're a guy shopping the Web for women's clothing in sizes that are, well, very close to your own. Imagine how valuable that information is—not to your buddies in your poker club, or even to your puzzled wife or girlfriend. But think of all the boutiques that would love to sell you a chiffon cocktail dress and heels, if only they knew.

Now they know. Or if they don't know yet, they will. The Web is poised to kick down the door on conventional direct marketing. The whole racket promises to become more invasive, more insidious—and more profitable—than anyone imagined.

Heebie-jeebies We're not talking about spammers and other cyberspace panhandlers here. The real money lies in capturing and reselling customer information that goes far beyond anything your credit-card company or home-insurance corporation has been pumping into its databases. Think we're kidding?

For just $25 a month plus modest service charges, CDB Infotek will build a profile of your favorite customer, including his Social Security number, his unlisted phone numbers, his landlord's name or the bank holding his mortgage, what he paid for his house, his credit history, the car he drives, his business assets, his driving record, and just about anything else you can imagine. And there are dozens of companies like CDB Infotek.

Some use content to wheedle information out of you. The aptly named FreeLoader let you create your own personalized news service, updated hourly. It cost you nothing in cash, but you had to supply your age, gender, profession, and scores of other facts. FreeLoader then sold this information to advertisers. The company is no longer in business, but plenty of other Web services use this tactic.

Firefly uses a variation on this scheme. The site cheerfully steers you to books, music, restaurants, and even people that match your interests—but you supply these interests. Firefly doesn't sell this information; instead, it licenses its technology to other sites, allowing them to customize their content—ads included—accordingly. Profiles are kept in virtual passports, which more than 1 million visitors now carry from site to site.



Taylor & Jerome

With just your **name** and **zip code,** a Web site can know your age, income, even what you paid for **your house.**

Even more unnerving are the sites that get your kids to squeal. KidsCom promises all manner of free cool stuff as soon as tykes register—by supplying their names, the number of people living in their homes, the type of computers they use, their favorite TV commercials, and other data. Friends and neighbors might also be selling you out. At Mars's original Web site, kids were asked to help in the so-called Imposter Search to ferret out a fake M&M's candy—by supplying the names and e-mail addresses of playmates.

Then, of course, there are cookies—little bits of code surreptitiously deposited on your hard drive. They tell a Web site's owner the domain name you hail from and what Web sites you've recently visited. Sound harmless? They are, until matched with directories and database lookup services, which cross-reference data from real estate, mortgage, legal, and driver's license records. Scary, huh?

Custom Come-ons The profits driving this kind of profiling are just as startling. Advertisers typically pay Web site proprietors 2 cents every time a random customer clicks on an ad. But they're willing to pay 7 cents per impression to companies that use targeted services like Firefly. Personalized ads at the *New York Times* sell at rates at least 25 percent higher than traditional online ads.

Why? The information can be startlingly precise. With just your zip code and name, Web sites using Intelligent Interactions' Adfinity service can tap existing consumer databases to decide which ads to show you, based on your age, income, even where you took your last vacation.

At stake here is one of the largest—and up to now the most elusive—revenue models for the Internet. U.S. businesses spent $160 *billion* dollars on advertising last year, with only $301 million of that underwriting ads on the Web. Yet many analysts predict Web advertising will grow to $7.7 billion by the year 2002.

Lots of entrepreneurs will make more money by selling the cybersouls of their customers than by whatever business their sites purport to be in. Creepy? You bet. It's also unstoppable.

E-mail taylor&jerome@zd.com

PHOTOGRAPH BY DAVID PERRY

MICRON™ TRANSPORT™ VLX

133MHz Intel Pentium® processor
16MB EDO RAM (40MB max.)
1.4GB hard drive
16X modular CD-ROM
Li-Ion battery
12.1" TFT SVGA DSTN, 800x600 display

STANDARD FEATURES

256KB L2 pipeline burst cache
PCI bus with 128-bit graphics accelerator
MPEG compatible
Zoomed video-ready
Touchpad pointing device
Microphone and 16-bit stereo sound
2-way infrared port
Modular floppy drive
Microsoft® Windows® 95 and MS® Plus!
5-year/1-year Micron limited warranty

$2,249
Bus. lease $77/mo.

MICRON TRANSPORT XPE

133MHz Mobile Intel Pentium processor with MMX™ technology
16MB EDO RAM (80MB max.)
1.4GB removable hard drive
12.1" active matrix color display, 800x600

STANDARD FEATURES

256KB pipeline burst cache
PCI graphics accelerator, 2MB VRAM
8X modular CD-ROM
Pick-a-Point™ dual pointing devices
Microphone and 16-bit stereo sound
Motorola Montana 33.6 fax/modem
CardBus- and zoomed video-ready
2 infrared ports, S-video, NTSC, game port
Management and Executive Travel software Pak
2 modular expansion bays
Custom nylon carrying case
Microsoft Windows 95 and MS Plus!
Microsoft Office 97 Small Business Edition
5-year/3-year Micron Power℠ limited warranty

$2,999
Bus. lease $102/mo.

MICRON TRANSPORT XKE

166MHz Mobile Intel Pentium processor with MMX technology
48MB EDO RAM
3GB removable hard drive
13.3" TFT XGA display

STANDARD FEATURES

512KB pipeline burst cache
128-bit, 2MB DRAM graphics
20X CD-ROM with AutoPlay™ technology & headphones
Pick-a-Point dual pointing devices
Microphone and 16-bit stereo sound
Integrated 33.6 Kbps modem, full duplex
CardBus- and zoomed video-ready
2 infrared ports, S-video, NTSC, game/MIDI port, USB
Management and Executive Travel software pak
2 modular expansion bays
Custom nylon carrying case
Microsoft Windows 95 and MS Plus!
Microsoft Office 97 Small Business Edition
5-year/3-year Micron Power℠ limited warranty

$5,399
Bus. lease $170/mo.



Packs A Punch.

The Micron TransPort Series. Discerning notebooks for discerning tastes.

What's small, sweet and gives you a lot of punch?

A Micron TransPort notebook, of course. Our outstanding line of portable PCs offers impressive flexibility, tempting prices and the hottest features going.

High-end users will handpick our TransPort XKE. A true desktop replacement, we've loaded our XKE with a great graphics accelerator, active matrix, upgraded CD-ROM, tons of memory and more. Our TransPort XPE is the ideal notebook anywhere – home, office or travel. And our VLX fits the bill if you're looking for a top-grade notebook at a palatable price.

If you want to pack some punch, see our TransPort notebooks.



MICRON POWER℠ WARRANTY

5-year limited warranty on microprocessor and main memory
3-year limited parts-only system warranty (1-year for TransPort VLX)
1-, 2- or 3-year optional on-site service agreement for Micron desktop and server systems
30 days of free Micron-supplied software support for Micron desktop systems; 3 optional network operating system incident resolutions included for Micron server systems
30-day money back policy
24-hour technical support

The foregoing is subject to and qualified by Micron's standard limited warranties and terms and conditions of sale. Terms and conditions of sale may vary for specific configurations. Copies of the limited warranties may be obtained on our Web site or by calling Micron.

Call now to order.

800-733-9513

www.micronpc.com

Designed for Microsoft® Windows® 95

Micron Sales Hrs: M-F, 6am-10pm, Sat, 7am-5pm (MT). Technical Support Available 24 Hrs A Day, 7 Days A Wk. Toll free Mexico: 95-800-708-1755 • Toll free Canada: 800-708-1758 • Toll free Puerto Rico: 800-708-1756 Int'l Sales: 208-893-8970 • Int'l Fax: 208-893-7393

MICRON ELECTRONICS™

©1997 Micron Electronics, Inc. All rights reserved. Micron Electronics is not responsible for omissions or errors in typography or photography. All purchases are subject to availability. Prices and specifications may be changed without notice; prices do not include shipping and handling and any applicable taxes. 30-day money-back policy does not include return freight and original shipping/handling charges, applies only to Micron brand products and begins from date of shipment. All sales are subject to Micron Electronics' current terms and conditions of sale. Lease prices based on 36-month lease. The Intel Inside Logo and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. Microsoft, Windows, Windows NT and the Windows logo are registered trademarks of Microsoft Corporation. Other product names used in this publication are for identification purposes only and may be trademarks of their respective companies.

CONFIGURED FOR YOUR LIFE

Circle 104 on reader service card.

The Raw Truth

There are some important issues to address before the next millennium, starting with monopolies. Frankly, I'm sick of this one. People have been complaining bitterly about Intel and Microsoft's stranglehold on the industry. IBM and the Seven Dwarfs dominated computer business in the mid-1960s—IBM had a 65 percent market share when it was busted up, and everyone else had 5 percent or so each. Intel, by comparison, has about 90 to 95 percent of the desktop microprocessor business.



John C. Dvorak

I'm baffled by the **What, Me Worry?** attitude. This is building the **onramp to fascism.**

So who's going to stop Microsoft and Intel? Nobody! At some point each company will grow into a bloated bureaucracy and collapse under its own weight. But a lot of small fry will never have a chance to bloom in the meantime. Obviously the government won't do a thing.

Law The least-discussed aspects of *the personal* computer business are little-understood and seldom-asked legal questions. Most of the focus lately surrounds the shrinkwrap license—a vehicle that has hampered trade. If I write a book and Joe Blow buys a copy, he can legally sell it to a used bookstore or give it to someone else to read. Or check it out of the library for free. Can you imagine what life would be like if books and magazines were licensed? It's idiotic that this artifact from the mainframe era is still with us.

Regarding licenses here's one to ponder: Since a minor can't legally enter into a contract, what happens when an 11-year-old pops the shrinkwrap on Office 97 and uses it? Is the read-before-opening license—a form of contract—valid? You tell me.

Hollywood I harp on Hollywood. I'm reviewing some digital camcorders that have a blocking mechanism built in so you can't dub a prerecorded movie. Hollywood seems to think that all we want to do with our lives is copy their films. Of course Jack Valenti, the industry spokesperson, was adamantly against *the introduction of* VCRs because they would ruin Hollywood. Now half their revenues come from tape rentals. *Oooops!*

Most new technologies result in new channels for wealth. Hollywood in general seems to be too stupid to understand this. There are a lot of boneheads in the film and broadcast industry, and I hope Gates buys them all out and makes them drive Yugos. I complain about this because it was Hollywood in the form of the music industry that destroyed the promising consumer market for digital audiotape.

Progress Computer magazines are criticized for constantly promoting the fastest new technologies, sometimes making writers look like shills for the computer companies. "We haven't begun to use the power of what we already have!" say the critics. "How about tips on getting the most out of the old machines?!" What they overlook is a bigger issue: progress.

This is like space travel. Heck, we've been to the moon and back but we haven't done much more there. Why are we bothering with Mars when we haven't even put a colony on the moon? Imagine where we'd be if global explorers in the 15th and 16th centuries had the same attitude.

We promote the newest developments to get to the next level and see what happens. When will readers understand this?

Passivity I've been formulating a column that explains passivity among computer users from a sociological perspective. Two instances where I observed this were during the formulation of the Communications Decency Act and more recently during the Web link crisis, which still continues. During the Decency Act debacle few computer users, many of whom felt the law was onerous, did little more than post an e-mail complaining about it. It flew through Congress unopposed. When www.totalnews.com was sued by large publishers over Web linking, nobody seemed to care that Web links might be made illegal by some bad precedent. I'm still baffled by the What, Me Worry? attitude.

One of two things is happening, and both are bad. First, for some reason computer users can't rouse enough energy to be active about the world around them. Or they're such optimists that they think everything will work out. As far as I'm concerned, both of these possibilities are the onramp to fascism.

Each of these issues needs an elaborate column. Next year, for sure!

E-mail pccdvorak@zd.com

PHOTOGRAPH BY DAVID PERRY

SACRIFICE NOTHING!

- *You don't have to sacrifice performance, quality, power or durability to get a great system*
- *MicroniX uses nothing but the highest quality components to deliver the best value system without the big expense.*
- *Our experienced consultants will work with you to find the perfect system to fit your needs.*

MICRONIX VECTOR PRO SERIES - ULTIMATE HOME SYSTEMS



MICROPHONE & SUPER SUBWOOFER SPEAKERS ARE ADDITIONAL OPTIONS TO THE LISTED CONFIGURATIONS.

STANDARD COMPONENTS:

- Deluxe 9-Bay Tower Case/ 3.5" 1.44mb Floppy Drive
- 17" .28 Fine dpi N/I 1280x1024 Flat-Screen Monitor (20" Monitor Upgrade only +549)
- 56k bps Voice Fax/Modem w/ Speakerphone & ASVD
- 24X Ultra Fast EIDE CD-Rom
- Sound Blaster AWE64 Wavetable Sound Card
- Surround Sound HI-FI Stereo Speakers w/ SubWoofer
- I-OMEGA 100mb Internal IDE Zip Drive w/ Zip Disk
- 105-Key Enhanced Keyboard/ 2-Button Internet Mouse
- Microsoft Windows 95 SR.2 ver.B, Microsoft Office '97 Microsoft Bundle w/ Encarta '97, & Internet Explorer

MVP-1096 INTEL 266MHz $2899
PENTIUM® II PROCESSOR FEATURING MMX™ TECHNOLOGY

- Intel 440FX PCISet, 512k L2 Cache, 2 USB's
- 64mb Fast 60ns EDO RAM (128mb EDO +$249)
- 6.5gig Ultra Fast EIDE Hard Drive (13gig +$399)
- New! Matrox Millenium II w/ 8mb WRAM
- 3 Years Parts Warranty / 1 Year ON-SITE

MVP-1083 INTEL 233MHz $2179
PENTIUM® PROCESSOR FEATURING MMX™ TECHNOLOGY

- Intel 430TX PCISet, 512k L2 Cache, 2 USB's
- 32mb Fast 10ns SDRAM (64mb SDRam +199)
- 4.3gig Ultra Fast EIDE Hard Drive (6.5gig +99)
- New! Matrox Millenium II w/ 4mb WRAM
- 3 Years Parts Warranty, 1 Year ON-SITE

MVP-1093 INTEL 233MHz PENTIUM® II PROCESSOR FEATURING MMX™ TECHNOLOGY ...$2749

MVP-1099 INTEL 300MHz PENTIUM® II PROCESSOR FEATURING MMX™ TECHNOLOGY ...CALL

5 Years Parts Warranty & 3 Years On-Site..... +$99

MVP-1080 INTEL 200MHz PENTIUM® PROCESSOR FEATURING MMX™ TECHNOLOGY ...$2049

MVP-1076 INTEL 166MHz PENTIUM® PROCESSOR FEATURING MMX™ TECHNOLOGY ...$1949

5 Years Parts Warranty & 3 Years On-Site..... +$99

MicroniX USA

TO ORDER TOLL-FREE

1.800.335.7272

TO ORDER ON-LINE

www.micronixusa.com

WHAT IS ON-SITE?

- ✱ Technician Comes To Your Home/Office for Repairs.
- ✱ Immediate Toll-Free Telephone Technical Support.
- ✱ Never Have To Tear Your System Down.
- ✱ Call Today - Repaired Tomorrow.
- ✱ Never Pay for Repair Costs.
- ✱ Never Pay for Labor.

On-Site MWS Warranty Services

MICRONIX INFINITY PRO SERVERS- EXECUTIVE & PROFESSIONAL

STANDARD COMPONENTS: ◆Deluxe ATX Tower Case/3.5" Floppy ◆4MB EDO ViRGE 3D Video Card ◆16X Ultra SCSI CD-Rom ◆56kbps Voice Fax/Modem w/ ASVD ◆3-D Wavetable Sound Card ◆105-Key Enhanced Keyboard/2-Button Internet Mouse ◆Microsoft® Windows® NT 4.0 Workstation ◆3Com® 3C905 Fast EtherLink® XL 10/100 PCI Network Card ◆2 Universal Serial Bus (USB) Ports

MIP-1066 INTEL 266MHz PENTIUM® II PROCESSOR FEATURING MMX™ TECHNOLOGY $2999

- Intel 440FX PCISet, 512k L2 PLBC
- Dual Processor Capable (2nd Processor +$799)
- Adaptec 2940 Ultra-Wide SCSI-III Controller
- 64mb Fast EDO Ram (128mb EDO + $249)
- 4.5gig UW SCSI-III Hard Drive (9gig +$450)
- 15" .28 N/I Flat-Screen Monitor (17" +200)
- 3 Yrs. Parts, Toll-Free Tech, 1 Yr. On-Site

Upg. to Windows NT Server 4.0 w/ 10 Users.....$649

MIP-1063 INTEL 233MHz PENTIUM® II PROCESSOR FEATURING MMX™ TECHNOLOGY $2849

MIP-1070 INTEL 300MHz PENTIUM® II PROCESSOR FEATURING MMX™ TECHNOLOGY ....CALL

5 Years Parts Warranty & 3 Years On-Site..... +$99

MIP-1050 INTEL 200MHz PENTIUM® PRO PROCESSOR $2099

- Intel 440FX PCISet, Pentium II Compatible
- 256k L2 PLBC (512k L2 PLBC +$599)
- Adaptec Ultra-Wide SCSI-III Controller
- 64mb Fast EDO Ram (128mb EDO + $249)
- 3.2gig Ultra SCSI-III Hard Drive (6.4gig +$349)
- 15" .28 N/I Flat-Screen Monitor (17" +200)
- 3 Yrs. Parts, Toll-Free Tech, 1 Yr. On-Site

Upg. to Windows NT Server 4.0 w/ 10 Users.....$649

MIP-1053 INTEL 233MHz PENTIUM® II PROCESSOR FEATURING MMX™ TECHNOLOGY $2249

MIP-1056 INTEL 266MHz PENTIUM® II PROCESSOR FEATURING MMX™ TECHNOLOGY $2399

5 Years Parts Warranty & 3 Years On-Site..... +$99

MICRONIX MX PRISM SERIES - POWER, 3-D GRAPHICS, & MULTIMEDIA

STANDARD COMPONENTS: ◆Deluxe 7/9 Bay Tower Case / 3.5" Floppy ◆3-D Wavetable Sound Card ◆Sub-Woofer w/ Surround Sound HI-FI Speakers ◆Amazing CD-Title Pak w/ '97 Interactive Encyc. ◆105-Key Enhanced Keyboard/2-Button Internet Mouse ◆Microsoft® Windows® 95 SR 2 ver. B

MXP-1043 INTEL 233MHz PENTIUM® PROCESSOR FEATURING MMX™ TECHNOLOGY $1799

- Intel 430TX PCISet, 512k L2 Cache, 2 USB's
- 32mb Fast 10ns SDRAM (64mb SDRam +199)
- 4.3gig Ultra Fast EIDE Hard Drive (6.5gig +99)
- New! Matrox Mystique 220 w/ 4mb SGRAM
- 17" .28 N/I 1280x1024 Flat-Screen (20" +549)
- 56k Voice Fax/Modem w/ ASVD
- 24X Ultra Fast EIDE CD-Rom
- 3 Yrs. Parts, Toll-Free Tech, 1 Yr. On-Site

MXP-1040 INTEL 200MHz PENTIUM® PROCESSOR FEATURING MMX™ TECHNOLOGY ...$1679

MXP-1042 AMD-K6™ PR-233MHz ENHANCED MMX™ PROCESSOR ...$1749

MXP-1039 AMD-K6™ PR-200MHz ENHANCED MMX™ PROCESSOR ...$1659

5 Years Parts Warranty & 3 Years On-Site..... +$99

MXP-1030 INTEL 200MHz PENTIUM® PROCESSOR FEATURING MMX™ TECHNOLOGY $1249

- Intel 430VX PCISet, 512k L2 Cache, 2 USB's
- 32mb Fast 60ns EDO RAM (64mb EDO +119)
- 2.5gig Ultra Fast EIDE Hard Drive (4.3gig +49)
- New! 4MB EDO ViRGE 3D Video Card
- 15" .28 N/I 1280x1024 Flat-Screen (17" +200)
- 33.6k Voice Fax/Modem w/ ASVD (56k +49)
- 20X Ultra Fast EIDE CD-Rom
- 3 Yrs. Parts, Toll-Free Tech, 1 Yr. On-Site

MXP-1026 INTEL 166MHz PENTIUM® PROCESSOR FEATURING MMX™ TECHNOLOGY ...$1149

MXP-1029 AMD-K6™ PR-200MHz ENHANCED MMX™ PROCESSOR ...$1229

MXP-1025 AMD-K6™ PR-166MHz ENHANCED MMX™ PROCESSOR ...$1149

5 Years Parts Warranty & 3 Years On-Site..... +$99

MICRONIX TORUS STARTERS - HOME/OFFICE WORKSTATION; UPGRADE

STANDARD COMPONENTS: ◆Intel Triton 430VX PCIset, 512k PLBC ◆16mb EDO Ram (32mb +$59) ◆ 3.5" 1.44mb Floppy Drive ◆7-Bay MIDItower Case, 250Watt Power Supply

MTS-1016 INTEL 166MHz PENTIUM® PROCESSOR FEATURING MMX™ TECHNOLOGY $899

- 1.3gig EIDE Hard Drive (2.1gig +$39)
- 64-Bit SVGA Video w/ 2mb EDO MPEG
- 14" .28 N/I 1280x1024 Flat-Screen (15" +69)
- 33.6k Voice Fax/Modem w/ ASVD
- 8X Ultra Fast EIDE CD-Rom
- 16-Bit Stereo Sound, Amplified Stereo Spkrs
- 105-Key Enhanced Keyboard/ 3-Button Mouse
- Microsoft Windows 95 SR. 2 ver. B
- 3 Yrs. Parts, Toll-Free Tech, 1 Yr. On-Site

MTS-1020 INTEL 200MHz PENTIUM® PROCESSOR FEATURING MMX™ TECHNOLOGY $999

MTS-1013 INTEL 133MHz PENTIUM® PROCESSOR $849

MTS-1014 AMD-K5™ PR-166MHz PROCESSOR $849

5 Years Parts Warranty & 3 Years On-Site..... +$99

BAREBONES

- ALL STANDARD COMPONENTS
- ViRGE 3-D 4mb EDO Video Card
- 3 Years Parts Warranty, Toll-Free Tech Spprt

AMD K5-120/133/166MHz.....$299/319/339

AMD K6-166/200/233MHz MMX.....$389/499/579

CYRIX 6x86-166+/200+.....$299/329

INTEL P5-100/150/200MHz.....$329/349/479

INTEL P5-166/200/233MHz w/MMX....$399/499/629

ADD A 2.1gig EIDE HDD (installed).....$179

ADD a 20X CD-Rom, Sound Card, Speakers...$99

33.6Kbps Fax/Modem w/Voice Speakerphone...$49

NO ADDITIONAL SURCHARGE FOR CREDIT CARDS

BUSINESS LEASING AVAILABLE

C.O.D.

All prices and specifications subject to change without notice. Leasing is arranged by third party leasing companies to qualified customers. On-Site Warranty is provided by an independent third-party provider. May not be available in remote areas. MicroniX USA cannot be responsible for any omitions, errors in typography or photography. All returned items must have an RMA number, and must be in all original packaging. Shipping charges, opened software and custom configured systems are non-refundable. Absolutely no refunds for merchandise returned after 30 days. Purchaser is responsible for all freight cost on all returns of merchandise. All logos and brand names are trademarks of their respective companies. Intel, the Intel Inside Logo, and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. MS, Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation. 3Com and EtherLink are registered trademarks of 3Com Corporation. All rights reserved.

WHY BUY MICRONIX?

Ask yourself what's most important in a PC.
First of all, simple set up and ease of use?
Technology and performance to zip through tasks?
How about multimedia and software that's **fun & useful**?
And last but not least, the
desktop access to the world, via internet?
This PC should also be **very well tested & warranted.**
And Most of all, the $ystem has to fit your budget.

SACRIFICE NOTHING!

MicroniX USA has you covered.
We give everything you want for a price that's just right!!

BEYOND THE SALE:

SERVICE & SUPPORT
(For More Information On Warranty & Policy Please Call)

3/5 YEARS ON PARTS

All, yes ALL parts are warranted for 3 years!

ON-SITE (IN HOME/BUSINESS) WARRANTY

Don't worry. If you have a problem with your MicroniX computer system, we'll have a skilled service representative out to you within 48 hours - WE PROMISE! First year is free on all MicroniX Systems.

TOLL-FREE TECHNICAL SUPPORT

Real live tech-support! Real proportionate staff which will allow easy access to a professional and certified technical staff - FREE!

30-DAY MONEY BACK GUARANTEE

We are so sure that you'll be totally satisfied with your new MicroniX system that we're offering a full 30-day money-back guarantee-no questions asked. Some restrictions apply. Please call for details.

We also offer 5 Years on Parts & 3 Years On-Site for only $99

SOME EXTRAS

HARDWARE:
(INSTALLED)

NEW! MATROX RAINBOW RUNNER.....CALL
I-OMEGA 100mb ZIP DRIVE w/ Media.....$99
I-OMEGA 1gig SCSI JAZZ DRIVE w/ Media...$299
SONY 6X READ/ 2X WRITE CD-Recorder.....$399
TOSHIBA DVD DRIVE w/ MPEG-II Board.....$499
APC Back-UPS Pro 650.....$299
3.2gig Travan III Tape Back-Up w/ Tape.....$189
Upg. to Microsoft Natural 104-Keyboard.....+ $39

SOFTWARE:

MICROSOFT OFFICE PROFESSIONAL '97....Call
COREL WORDPERFECT SUITE 8.....Call
LOTUS SMARTSUITE '97.....Call
MICROSOFT FAMILY SUITE w/ Encarta '97....Call

WE ALSO CARRY OVER 100 NAME BRANDS OF OVER 1000 COMPONENTS READY TO SHIP THE SAME DAY! YOU CAN FIND THEM ON OUR WEB-SITE!

buy MicroniX USA™ direct.

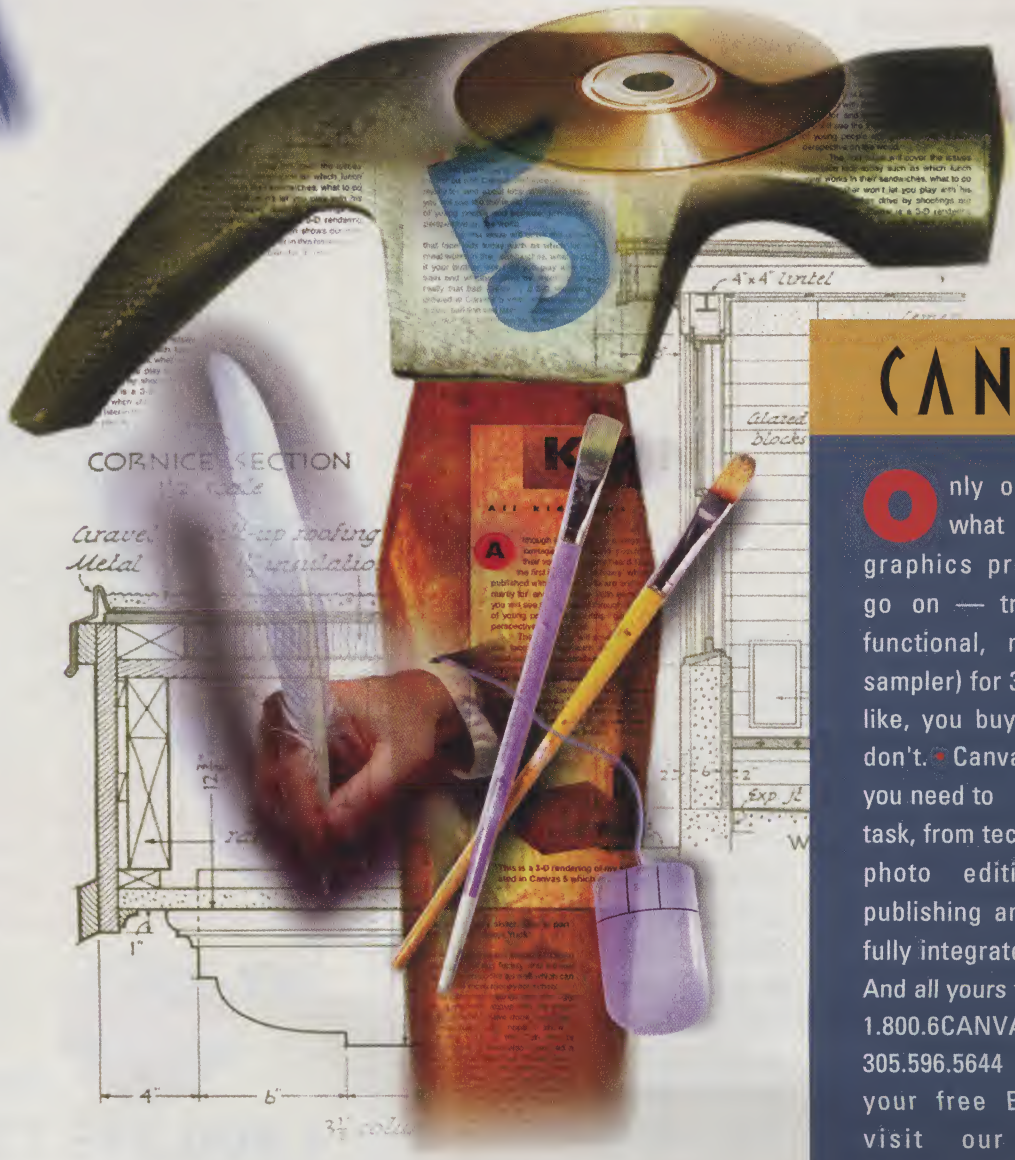
1.800.335.7272

www.micronixusa.com

23050 MILES RD. • CLEVELAND, OH 44128
LOCAL/INT'L (216) 475-9300
FAX LINE (216) 475-6610
HRS: M-F 8am-9pm;SAT 10am-6pm EST

The World's First Do-It-Yourself Ad.

Rather than try and sell you on Canvas 5, we invite you to sell yourself with a 30 day free trial offer.



CANVAS 5

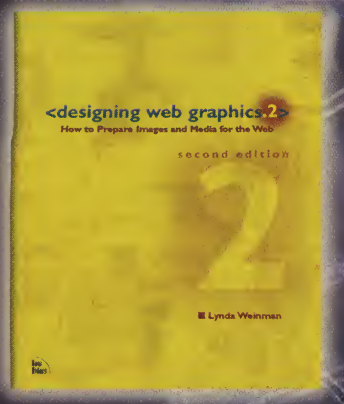
Only one person knows what you want in a graphics program: you. • So go on — try Canvas 5 (fully functional, not some weenie sampler) for 30 days, free. If you like, you buy. If you don't, you don't. • Canvas 5 has everything you need to tackle any graphics task, from technical drawing and photo editing, to desktop publishing and web design. All fully integrated. All easy to use. And all yours for the asking. • Call 1.800.6CANVAS (622-6827) or 305.596.5644 ext. 2, and ask for your free Evaluation CD or visit our web site at www.deneba.com/pccomp/ to download it gratis. And if you've already sold yourself, visit your favorite reseller or call us and pick up a copy today.

Circle 377 on reader service card.

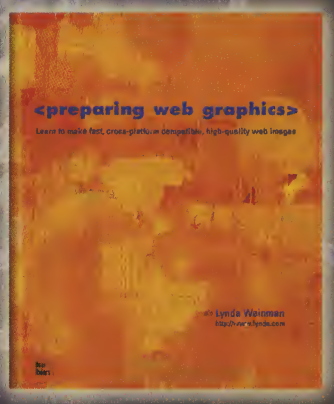
© Copyright 1997 Deneba Software. Limited time offer valid only in North America.
This ad was made using nothing but Canvas 5. Any questions?

DENEBA · Windows Magazine WWWW · PC Computing ★★★★ · BYTE Best of Comdex Winner Best Application Software · MacUser Awards Editors' Choice 1996 Finalist · 60 Day Money Back Guarantee Risk-Free!

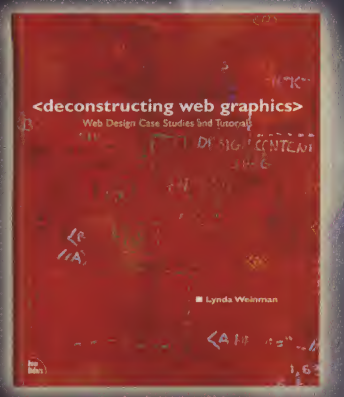
<Out-of-this-world web graphics>
are within your reach.



Pub. Price $55.00 B&N Price $44.00

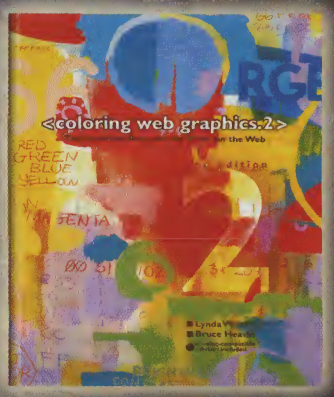


Pub. Price $39.99 B&N Price $31.99



Pub. Price $45.00 B&N Price $36.00

From September 1, 1997, to January 31, 1998, when you buy any Macmillan Computer Publishing book—including Que and Sams titles—with a purchase price of at least $14.99, you automatically qualify for a $10 mail-in rebate! Just ask your bookseller for information about this special offer. Specific terms and conditions apply.



Pub. Price $50.00 B&N Price $40.00

Barnes & Noble
Booksellers Since 1873

Circle 212 on reader service card.

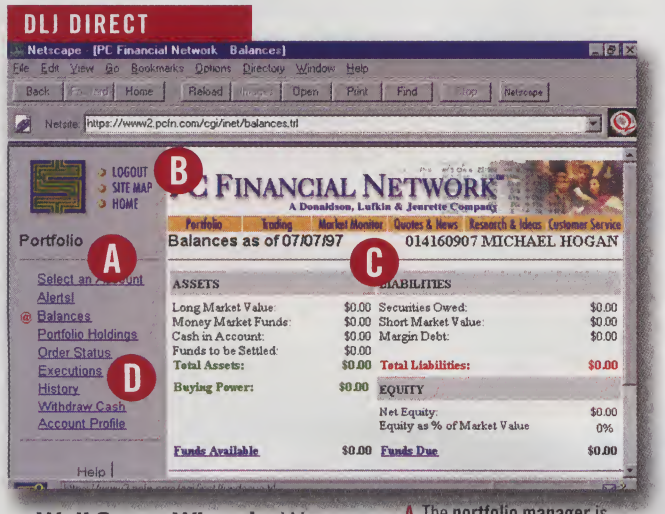
New!

Do-It-Yourself Cybertrading

Welcome to the age of self-guided investing. Market data, company financial information, and analyst opinions—once closely held by the suits—are now widely available to the rest of us, mostly in plain English, and much of it for free.

And what about all those sales commissions the lingo boys emptied your account with? They've steadily dwindled from hundreds of dollars per trade to less than $50 for the average trade if you do it yourself on the Web.

The leaders in this field are Accutrade, E*Trade, and DLJ Direct (formerly PC Financial Network). All three are established online firms that offer competitive prices, a track record of successfully completed transactions, and various value-added services that sharpen your investing acumen. Each offers its own flavor of research information like company financials, price histories, market reports, and consensus analyst reports. But if you've been playing the numbers for a while, you may still prefer the collegiality of a phone call to a broker. Online trading is for self-directed investors willing to spend the time sifting through highly technical information so they can make their own investment choices.



Wall Street Wizards: Want to play the market without the hassle of a traditional broker? Try online investment services from DLJ Direct (above), Accutrade, and E*Trade.

A. The **portfolio manager** is well organized.

B. **Sitewide navigation options** are always at hand.

C. Navigate easily between **trading and research.**

D. **Activity links** provide quick views on your holdings in the portfolio manager.

E*Trade is the bargain broker of online investing. It charges $14.95 for each trade of up to 5,000 shares of issues on major exchanges and $19.95 for the same number of over-the-counter shares, plus a penny for each share over 5,000. Currently you can trade equities and options as well as trade on margin. E*Trade doesn't deal in commodities or bonds, although it plans to let you buy and sell mutual funds soon. There's a $15 surcharge for broker-assisted trades, but no account maintenance fees, even for IRAs.

Tricks of the Trade In addition to the Web and Microsoft Investor, you can access your E*Trade account from America Online, CompuServe, PointCast, Prodigy, MindSpring, and USA Today Online, or even via touch-tone phone without a surcharge. Your portfolio is maintained on E*Trade's server, but E*Trade plans to incorporate the Open Financial Exchange specification in the fall, so you'll be able to easily download your investment data into a broader management tool like Intuit Quicken. E*Trade's research comes from Baseline and Investor Dealers Digest and is somewhat thinner than the other two services' research, but it does include up-to-the-minute market news and company profiles.

On the downside, E*Trade's Web site help and FAQs are too light, and customer service is slow. And although it advertises that you need no balance to join, you must maintain a $1,000 balance to keep your account active.

The oldest online brokerage, DLJ Direct recently halved its security trading rates to $20 per trade for up to 1,000 shares of a stock and 2 cents per share thereafter. That works out to commissions of $20 for 100 to 1,000 shares and $100 for 5,000 shares, regardless of share price or exchange.

Direct Deals Despite the higher trading prices, DLJ Direct is a great place for the small investor because it charges no management fees—even on IRAs—and doesn't require a minimum balance or a deposit to open an account. You can trade equities, options, mutual funds, or bonds online or via phone.

DLJ Direct has an attractive, thoughtfully designed, and highly navigable Web site where you can open most account types in minutes (some require signatures)—ideal for the novice investor. You can brush up on news and research from sources including Reuters, Zacks, Standard & Poor's, and Lipper Analytical. There's online screening for 4,500 stocks and more than 6,000 mutual funds, including 500 without transaction fees. Your investment portfolio is maintained on its Web site, but DLJ is working on a way to let you pull data into Quicken and Microsoft Money. You can also access your DLJ Direct account through Microsoft

Guide to PC Computing's Ratings

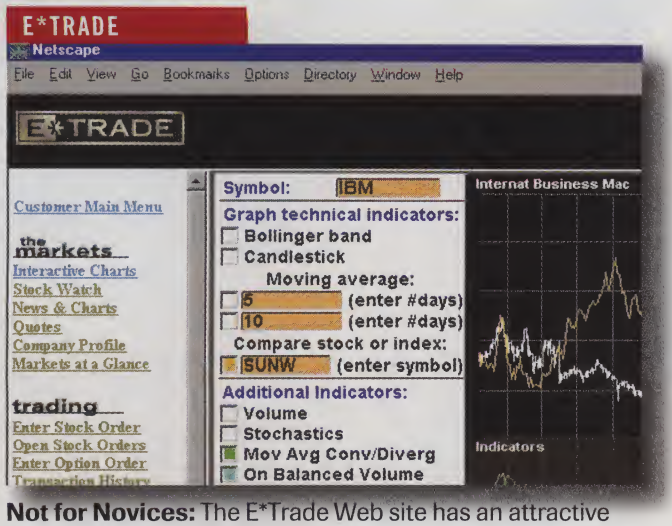
Excellent *Market leader that offers exceptional performance* ..... ★★★★★

Good *Excels in many areas; a good buy* ..... ★★★★

Acceptable *Average for its class; a justifiable purchase* ..... ★★★

Poor *Out-of-date or substandard; offset by some positive features* ..... ★★

Unacceptable *Missing necessary features; avoid* ..... ★



Not for Novices: The E*Trade Web site has an attractive look and feel and is easy to navigate—but it doesn't provide much help or terminology for unseasoned investors.

Investor, America Online, Reuters Money Network, or Physicians Online. Its customer service is also top-notch: We got prompt, knowledgeable service over the toll-free customer-service line, which is open from 7 a.m. to 1 a.m. EST.

Big Money While small investors are certainly welcome, Accutrade is a better deal for frequent, high-volume traders. The service requires a balance of $5,000 in cash or equities to open an account. The price to buy or sell an equity is $28 plus 2 cents per share regardless of the quantity or price of the stock. That works out to $30 for 100 shares, $48 for 1,000 shares, and $128 for 5,000 shares.

There's a $7 surcharge for broker-assisted trades if you don't tap into Accutrade via the Web, America Online, Microsoft Investor, or touch-tone phone. You can buy or sell individual stocks, equity options, and some 6,200 mutual funds, but not bonds or commodities. Accutrade charges a $27 transaction fee for mutual funds, and while it charges for some special services, there is no annual fee to maintain an IRA.

Accutrade lets you store your downloaded quotes and trades, as well as analyze your positions and account balances. Unfortunately, you export data from the portfolio manager to Quicken or Money in a clunky file format.

Best Investment Despite E*Trade's price advantage, small investors will be more comfortable with DLJ Direct because of its no-minimum policy and better phone support. E*Trade doesn't let you conduct as many types of trades as DLJ Direct or Accutrade. Frequent traders will like Accutrade's portfolio manager.

There's a downside to any online service. A server can crash and freeze you out of your accounts at the most inopportune times. If that happens on a busy day, expect phone lines to quickly get clogged as well. Consider spreading your trading among different brokerages—not necessarily all online. MIKE HOGAN



24-Hour Broker: Accutrade's portfolio manager has a unique wizard for writing scripts that automatically buy or sell when a security hits a specified price.

FILEBOX

DLJ Direct

★★★★★

Verdict: The perfect portfolio booster for the novice or infrequent investor.

Pros: Easy to use; no account minimums.

Cons: No easy way to import data into Intuit Quicken or Microsoft Money.

$20 per trade for up to 1,000 shares and 2 cents per share thereafter
DLJ Direct, (800) 825-5723
www.dljdirect.com
Reader Service No. 615

Accutrade

★★★★

Verdict: A good choice for the busy but frequent trader.

Pros: Sophisticated portfolio manager allows automation.

Cons: More expensive than the alternatives.

$28 plus 2 cents per share for equities plus a $7 surcharge for broker assistance
Accutrade, (800) 882-4887
www.accutrade.com
Reader Service No. 616

E*Trade

★★★★

Verdict: No-frills trading for the savvy investor.

Pros: Rock-bottom prices for an established broker.

Cons: Limited security types to trade; $1,000 minimum balance required; poor help.

$14.95 per trade for up to 5,000 shares on major exchanges; 1 cent per share over 5000; $19.95 for the same number of over-the-counter shares
E*Trade, (800) 786-2573
www.etrade.com
Reader Service No. 617

Big enough to fit your vision.

Small enough to fit your budget.



ADI MicroScan

Introducing the new 19" (18" viewable image) ADI MicroScan 6P.

THE NEW MICROSCAN 6P

- 19" (18" viewable image)
- 0.22mm horizontal dot pitch
- 1600 x 1200 @ 75Hz
- Horizontal Frequency 30-95KHz
- USB hub built-in
- Microphone built-in
- Attachable speakers option

The MicroScan 6P delivers the eye-opening benefits of a big screen but costs about the same as smaller monitors. Now you can get a 19" screen (18" viewable image) with the sharpest image clarity available, attachable speakers, built-in microphone, and a USB hub, all in an innovative design that fits neatly on your desk. And your budget. The perfect monitor for viewing one window or many, the MicroScan 6P bridges the gap between tomorrow's visions and today's deskspace and budgets. With our industry-leading guarantee of quality and reliability, ADI registered users enjoy a free 45-month warranty*, 25% longer than our competitors. Call 1-800-977-3336 today, or visit us at www.adiusa.com for the dealer nearest you.

Seeing clearly into the future

ADI

www.adiusa.com

©1997 ADI Systems, Inc. 2115 Ringwood Avenue, San Jose CA 95131. MicroScan is a trademark of ADI Systems, Inc. All other trademarks are properties of their respective owners. Specifications subject to change without notice. * 42 month warranty plus 3 month registration bonus.

42 MONTH WARRANTY

USB

Circle 344 on reader service card.

IBM ThinkPad 770

The Civilized Way to Travel

SNEAK PREVIEW

So you've never taken the Concorde to London, dined your best clients at Le Cirque, or cinched a deal in a $2,000-a-night suite? Let IBM's ThinkPad 770 show you how the other half enjoys business travel.

Connoisseur Class *PC Computing*'s sneak peek at Big Blue's new top-of-the-line notebook provoked the usual reaction among editors: giddy enthusiasm turning to silent awe. ThinkPads have always been more than the sum of their parts, and the 770 lives up to this legacy. Its elegance of design is informed by the rude demands of the road. Usability is first-rate. And the machine packs tomorrow's technology into a box that weighs less than 8 pounds dressed for travel.

As you'd expect, the 770's résumé is impressive, starting with its 14.1-inch active-matrix display and 233MHz MMX Pentium processor. The screen is remarkably bright across the entire panel. Full-motion video seems impossibly vivid given the 0.5-inch depth of the bezel. Audiences of five can comfortably watch your presentations. Six can squeeze around if you pass out breath mints first.

Pack those presentations with animation, video, and sound effects. In addition to a fast MMX CPU, the machine comes with hardware-based MPEG-2. The integrated digital signal processor renders Dolby AC-3 audio. Video-capture circuitry is hardwired into the 770 with an S-Video jack on the back. And the integrated speakers belt out enough sound to fill a large hotel meeting room.

You may regret doing that, however, given the quality of the speakers. As with all notebooks, the ThinkPad rumbles at the low end and blares in higher ranges. In addition to the standard complement of audio jacks, there's an SRS jack for 3-D Dolby AC-3 speakers.

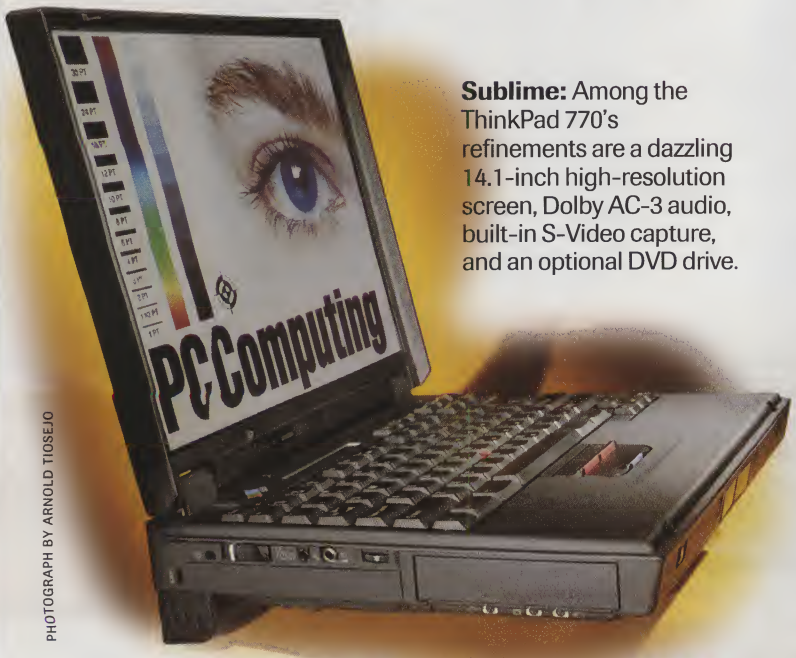
Have It All You've come to expect these kinds of top-drawer technologies in a ThinkPad, but usability is where this machine truly shines. The 5.1GB hard drive is removable—and you can add a second drive, bringing total storage capacity to 10.2GB. That swappable bay also accepts a floppy drive, a second battery, a 20-speed CD-ROM drive, an Iomega Zip drive, or a DVD drive. As you can see, storage is not exactly a problem with this notebook.

With the large display the ThinkPad grows—to 10 by 12.3 by 2.2 inches. It's certainly not as thin as Big Blue's ThinkPad 560 subnote, but it's considerably thinner than the 760 it supersedes. The extra depth to the machine provides space for a full-size wrist rest.

It also allows for a third mouse button positioned directly below the other two; when you press it, it lets you use the pointing stick for scrolling through large Web pages or spreadsheets. For that matter, you can now tap on the pointing stick itself to click. It will make you resent the mouse on your desktop.

There are other improvements as well, such as DMI compliance for managing the notebook over a network; Windows NT support (with power management and PC Card support); and heat dissipation, which makes many notebooks running 100MHz slower feel like veritable lap warmers.

At $7,000 for the top-end unit, the 770 isn't for the faint of budget (cheaper versions will be available). But if you simply need the finest notebook in the world, this is your machine. **MARTY JEROME**



Sublime: Among the ThinkPad 770's refinements are a dazzling 14.1-inch high-resolution screen, Dolby AC-3 audio, built-in S-Video capture, and an optional DVD drive.

PHOTOGRAPH BY ARNOLD TIOSEJO

FILEBOX

IBM ThinkPad 770

★★★★★

Verdict: Quite possibly the finest notebook in the world.

Pros: Cutting-edge technology; first-rate usability; elegance through and through.

Cons: Will call out the attack dogs in your purchasing department.

Competition: The Toshiba Tecra 740CDT and the Micron TransPort XKE are the next-best high-end presentation systems, but they can't touch the 14.1-inch screen and design refinements in the ThinkPad 770.

Features As Tested: 233MHz MMX Pentium, 512K L2 cache, 32MB of SDRAM, 5.1GB hard drive, 14.1-inch active-matrix display, 3-D graphics accelerator with 2MB of SGRAM, 33.6Kbps fax modem, two Type II PC Card slots, USB port.

$7,000 est. street price
IBM
(800) 426-2968
Reader Service No. 618

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

3-D at Warp Speeds

SNEAK PREVIEW

Holy clock speed, Batman, has Intel fired off a dud? Gateway 2000's new 300MHz Pentium II G6-300XL performs only slightly faster than Dell's 266MHz Dimension XPS H266. And the new Dell XPS D266—outfitted with a faster motherboard—actually runs at the same speed as the old Dimension XPS H266.

What gives? The new systems from Dell and Gateway are the first to enter *PC Computing*'s Labs equipped with Intel's new 440LX motherboard chip set. The LX chip set supports an accelerated graphics port (AGP), which lets memory-consuming 3-D graphics bypass the slower PCI bus and appear onscreen faster. The LX chip set also squeezes more performance from SDRAM chips. It was supposed to be the trick that would make the 300MHz CPU the fastest way to run Windows. But business-app benchmark test results don't bear this out.

Where the LX most noticeably shines is in rendering 3-D graphics. But today's spreadsheets, word processors, and presentation packages make scant use of 3-D.

On the other hand, you wouldn't exactly call the Dell or Gateway systems slackers. The Gateway G6-300XL, in particular, offers screaming-fast performance. It outpaced the Dell Dimension XPS H266 by about 7 percent in business-app benchmarks, which isn't bad given that the XPS H266 had been the fastest 266MHz Pentium II we tested. (See "DVD Goes to Work," page 110, for an update.)



Future Shock: Systems from Dell (left) and Gateway are the first to feature the next-generation Intel LX motherboard chip set and an accelerated graphics port.

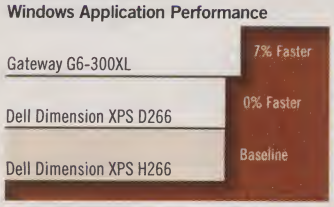
Like all Gateway machines, the G6-300XL comes loaded: 64MB of SDRAM, an 8GB hard drive, a 12/24-speed CD-ROM drive, an x2 fax modem, state-of-the-art audio, and a 19-inch monitor. The damage is light at $3,799.

Advanced Graphics The Gateway system owes most of its fiery performance to STB's AGP video card with 4MB of memory. The Dimension XPS D266 uses the same video card and configuration. In fact, the Dimension's specs look a lot like the G6-300XL's, albeit with the slightly slower 266MHz CPU. It comes with an 8GB hard drive, a 12/24-speed CD-ROM drive, and high-end audio, but only a 17-inch monitor. The key difference is that at $2,999 it's $800 cheaper than the Gateway G6-300XL.

Are these systems worth the money? AGP is a crafty technology to be sure. But 3-D video cards outfitted with 8MB of memory currently sell for less than $300. With that much memory on the card, your applications won't likely have to borrow from system memory. In other words, AGP might be moot for now.

If you use a lot of 3-D graphics, both the Dell and Gateway systems will give you a big performance advantage. The Dell XPS D266 offers better bang for the buck. But the Gateway G6-300XL's performance is untouchable. **MARTY JEROME**

LX Advantage?
Windows Application Performance



NOTE: WINSTONE 97 IS A TEST THAT RUNS 14 OF THE MOST POPULAR WINDOWS BUSINESS APPLICATIONS UNDER WINDOWS 95 AND WINDOWS NT.

3-D Edge: LX chip-set systems offer little advantage when running standard Windows apps, but 3-D performance (particularly when running games) is noticeably faster.

FILEBOX

Dell Dimension XPS D266

★★★★

Verdict: A bargain machine that boosts 3-D performance and provides muscle for your day-to-day apps too.

Pros: Solid dollar value; primed with heavy-duty video power for 3-D applications.

Cons: No performance advantage for business apps over the more affordable 266MHz Dimension XPS H266.

Features As Tested: 266MHz MMX Pentium II, 64MB of SDRAM, 8GB hard drive, 12/24-speed CD-ROM drive, STB AGP 3-D graphics accelerator with 4MB of memory, 56Kbps fax modem, Creative Labs AWE64 audio card, 17-inch monitor.

$2,999 est. street price
Dell Computer
(800) 388-8542
Reader Service No. 619

Gateway G6-300XL

★★★★

Verdict: When you need all the 3-D Windows muscle you can muster, this is the box to buy.

Pros: Top-flight performance; power on tap for tomorrow's apps; plenty of awe-inspiring multimedia extras.

Cons: Pricey; little performance boost over a 266MHz Pentium for regular 2-D apps.

Features As Tested: 300MHz MMX Pentium II, 64MB of SDRAM, 8GB hard drive, 12/24-speed CD-ROM drive, STB AGP 3-D graphics accelerator with 4MB of memory, Ensoniq PCI Audio card, x2 fax modem, 19-inch monitor.

$3,799 est. street price
Gateway 2000
(800) 846-2000, (605) 232-2023
Reader Service No. 620

PHOTOGRAPH BY ARNOLD TIOSEJO

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

FREE Consumer Catalog from APC



If you just bought your first computer, or run a company that needs hundreds, you can depend on the reliability and peace of mind that comes with APC products. APC protects more computers for more companies in more countries than anyone in the world.



❑ **YES!** I'd like to receive my FREE catalog.

❑ **NO,** I'm not interested at this time but please add me to your quarterly newsletter mailing list.

Name: _____

Title: _____ Company: _____

Address: _____

_____

City: _____ State: _____ Zip: _____ Ctry: _____

Phone: _____ Fax: _____

Brands of UPS used: _____ # _____

Brand of PCs used: _____ # _____

Brands of Servers used: _____ # _____

* Allow 6 - 8 weeks for delivery.

Please fill in all information completely for prompt service.

(888) 289-APCC x8236
Fax: (401) 788-2797
www.apcc.com

©1997 APC. All Trademarks are the property of their owners. BF20EBRC • E-mail: apcinfo@apcc.com • 132 Fairgrounds Road, West Kingston, RI 02892 USA

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO. 36 WEST KINGSTON, RI

POSTAGE WILL BE PAID BY ADDRESSEE

APC®
AMERICAN POWER CONVERSION

DEPT. E7-BO
132 FAIRGROUNDS ROAD
PO BOX 278
WEST KINGSTON RI 02892-9920

"My business can't stop when the power does...



Back-UPS® Office™'s instant battery back-up can keep you up and running even when the power goes down.

$30 REBATE

With the Purchase of a Back-UPS Office between August 1 and October 31, 1997. You can download redemption card from our Web Site at www.apcc.com/english/promo025.htm or visit local retailers below for more info.

... I rely on Back-UPS® Office™ from APC."

Protect ME! APC

"I've got Back-UPS® Office™ from American Power Conversion. Back-UPS Office combines world class surge protection, a $25,000 equipment protection guarantee* and instant, uninterruptible battery back-up power.

So when the power goes out, and it will.... I have plenty of time to save what I am working on and shut down safely.

Plus, I am protected from surge damage, keyboard lock-ups, data loss and power problems transmitted to my workstation over data and power lines."

So, if you just bought your first computer, or run a company that needs hundreds, you can depend on the reliability and peace of mind that comes with APC products. Why? It's simple. APC protects more computers for more companies in more countries than anyone in the world.

Now, that's a reason to smile.



Look for APC power protection products - starting at $24.95

FREE Consumer Catalog



☐ **YES!** I'd like to receive my FREE catalog.
☐ **NO,** I'm not interested at this time but please add me to your quarterly newsletter mailing list.

Name: _____
Title: _____
Company: _____
Address: _____
City/Town: _____
State: _____ Zip: _____ Country _____
Phone: _____ Fax: _____
Brand of UPS used? _____ # _____
Brand of PCs used? _____ # _____
Brand of Servers used? _____ # _____

APC
800-289-APCC x8236
Fax: (401) 788-2797
www.apcc.com
E7-B0

APC's Back-UPS Office is available at:

MICRO CENTER · Micro WAREHOUSE · OfficeMax · BEST BUY · COMPUTER City · COMPUSA · STAPLES The Office Superstore · Fry's

©1997 APC. All Trademarks are the property of their owners. * See policy for details. BF20EF • (800)347-FAXX PowerFax • E-mail: apcinfo@apcc.com • 132 Fairgrounds Road, West Kingston, RI 02892 USA

APC has won more awards for reliability than all other UPS vendors combined.

LAN TIMES Reader's Choice 1996 · Networking

Circle 184 on reader service card.

Fatten Up Your Floppy Drive

Imagine owning a state-of-the-art stereo system that played only eight-track tapes. That's the type of problem you get with any desktop system. Along with your vast hard drive and high-octane graphics card comes that anemic 1.4MB floppy drive. Trying to cram a presentation or a video file onto a floppy disk is nearly impossible. Imation's SuperDisk Drive is the first removable drive that's a true floppy replacement. Along with reading run-of-the-mill floppy disks, the drive can read and write its own 120MB removables. Even better, it's one of the fastest removable drives we've seen, performing over 300 percent faster than the Iomega Zip drive.



More Megabytes: Just try to come up with an excuse not to take your work home with you. The Imation SuperDisk Drive reads and writes both 1.4MB floppy disks and its own 120MB removables, and is far faster than the Iomega Zip drive.

Read All The SuperDisk Drive is one of the first drives based on the LS-120 standard. If you haven't heard much about LS-120, you will soon. Dozens of desktop and laptop makers have finally decided to ditch the ancient floppy drive and go with an LS-120 drive instead. NEC, for instance, has already announced its intention to include an internal LS-120 drive in some of its upcoming laptops.

If you already have a floppy drive but want a boost, the SuperDisk Drive is a great add-on. It easily hooks up to the parallel port and can even take the place of your regular floppy drive in Windows 95. Like other removable drives, you simply assign it a drive letter and it works.

The first LS-120 drive we saw, the a: drive from OR Technology, was a big disappointment. In our last roundup of removable drives (see "Removable Revolution," August, page 232) it came in dead last. But that's not the case with Imation's offering. Even though it's chained to the poky parallel port, throughput speeds on the SuperDisk Drive were impressive. It left the Iomega Zip parallel-port drive in the dust, thanks mainly to its fast read heads, which read and write data at 290KBps on average.

Considering all that performance was through the parallel port, we can't wait to see what the internal version of the drive can do. But keep in mind that the SuperDisk Drive can't touch the performance of the big boys of removable drives, including the Iomega Jaz and the SyQuest Technology SyJet 1.5GB. If you need big file transfers at top speeds, you're better off with one of those.

Bargain to Boot Despite the SuperDisk Drive's standout performance, its price is right on par with the other drives in its class. While the drive itself is about $50 more than the Zip parallel-port drive, its 120MB disks are only $16 each—just 13 cents per megabyte.

On the downside, if you frequently need to share files, expect a bumpy ride for now. Although many desktop manufacturers plan to include LS-120 drives, most are still to come. The Iomega Zip remains the most popular removable storage type around, aside from the regular floppy disk.

While dozens of removable drives have come along that serve as fine floppy-drive replacements, they all have the same problem—they don't play well with each other. No two types of removable drives work together. At least the Imation SuperDisk Drive finally fixes the floppy problem and offers far better performance than most removable drives. JACK LYON

Faster Floppies

Removable-Drive Performance



NOTE: DISK WINMARK 97 IS A TEST THAT MEASURES DISK PERFORMANCE UNDER WINDOWS 95 AND WINDOWS NT. ALL TESTS WERE PERFORMED ON A DELL DIMENSION XPS M200S.

On the Move: Imation's parallel-port LS-120 drive reads circles around the Iomega Zip parallel-port drive while offering an extra 20MB per disk.

PHOTOGRAPH BY ARNOLD TIOSEJO

FILEBOX

Imation SuperDisk Drive

★★★★

Verdict: Finally, a fast removable 120MB storage solution that reads and writes regular floppy disks too.

Pros: Outstanding performance; backward compatibility with regular 1.4MB disks; internal version will be standard in many popular desktops and laptops.

Cons: LS-120 standard not yet as popular as the Iomega Zip drive.

Features As Tested: External parallel LS-120 drive; parallel cable; one SuperDisk LS-120 disk; software drivers for Windows 3.1, 95, and NT; up to 290KBps data-transfer rate; 70ms average seek time.

$199 list price for drive, $16 est. street price for 120MB disk
Imation Corp.
(800) 888-1884, (612) 704-4000
Reader Service No. 621

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

They sent the wrong eval units. You were told you'd have that software yesterday...and you thought you were drinking decaf!



At least you don't need to worry about memory.

In your world, there's no such thing as a smooth day.

That's why VisionTek makes memory for corporate IS. Which means we do more than manufacture outstanding components. We back them up with superior tech support and value-added customer services designed for IS professionals. Like free evaluation assistance which lets you test memory on your terms. Or working with you to extend the productivity of your technology investments. Or total access to the VisionTek team when you need it—whether it's via fax, online or through our toll-free hotline.

All of which makes specing your company's memory faster and easier. So you don't have to devote a lot of time and effort to it yourself. When you spec VisionTek, you get the attention, service, support and flexibility that a slow-moving, giant vendor simply won't touch. No beans about it.

Call your authorized reseller or 1-800-826-9855 today.

more than memory

visiontek™

http://www.visiontek.com © 1997 VisionTek

VisionTek, Inc.
Registered to ISO 9001
Certified NO. A5241

Circle 299 on reader service card.

Sharpshooters on the Run

SNEAK PREVIEW

If you're planning to snap a few photos on your next business trip, don't hassle with a bulky, boxy camera. The Toshiba PDR-2 and the Mitsubishi DJ-1000 give new meaning to traveling light. Each featherweight camera leaves plenty of space in your carry-on bag and plenty of cash in your bank account.



Hit the Road: Develop photos in a flash. The Toshiba PDR-2 (left) and the Mitsubishi DJ-1000 are two pocket-size digital cameras designed to travel.

Good To Go The Toshiba and the Mitsubishi cameras are tailor-made for business travel. They're small and slim, owing their compact construction to tiny, removable storage media. Because of their easy PC Card–slot image transfer, both work well with notebook computers. And both cash in at under $500, making them extremely affordable by digital camera standards.

It's hard to believe Toshiba could pack so much power into a camera no larger than a deck of cards. But the PDR-2 carries a full feature load inside its 5.8-ounce shell. It sports a flip-out PC Card transfer module. Just slide the module into your notebook's PC Card slot and your images automatically feed into the computer. Images are stored in the camera on Toshiba's paper-thin SmartMedia removable cards. When one SmartMedia card fills up, just replace it with another. The camera comes with two 2MB cards, which store up to 48 standard images each or 24 high-resolution images.

While the $499 Toshiba PDR-2 is small, it doesn't skimp on quality. The camera produces clear, bright, 640-by-480 JPEG-compressed images. Toshiba bundles Sierra Imaging's Image Expert and LivePicture's LivePix with the camera for a healthy range of photo-editing tools. A lithium-ion battery keeps you snapping photos longer, and a digital data panel indicates image resolution and count. The only thing the PDR-2 lacks is a flash, although the camera's light sensor keeps images bright, even in dark settings.

Half-pint At an amazing 2.8 ounces, the Mitsubishi DJ-1000 is easily the smallest digital camera around. Be careful—you can slide it into your pocket, your bag, even a large wallet and forget it's there. The camera's two AAA alkaline batteries and Compact Flash removable storage card make up most of its body.

At just $200, this tiny camera carries a small price tag too. Unfortunately, you get what you pay for, which is minimal frills and mediocre image quality. The camera's push button and power switch are its only controls. You'll find no data panel and only a few indicator lights. The DJ-1000 produces 504-by-378 resolution images, which you can edit with Mitsubishi's own image-editing software. The included PC Card adapter makes for easy image transfer, but you must convert the transferred files from a proprietary format.



Photo Finish: The Toshiba PDR-2 produces rich, bright JPEG-compressed images that transfer to your notebook via the camera's flip-out PC Card.

A potential flaw in both cameras is their PC Card–only mode of transfer. To load images directly to your desktop system you'll need a PC Card reader. Even if you transfer images from your notebook to your desktop computer, you may want to invest in a larger removable-storage system or you'll be constantly ferrying floppy disks back and forth.

If you need a *good* compact digital camera, the Toshiba PDR-2 is a roadworthy choice. The Mitsubishi DJ-1000 is a bare-bones alternative, but if you don't need fancy features you can't beat its size or price. **JULIE POLITO**

FILEBOX

Toshiba PDR-2

★★★★

Verdict: A full-featured digital camera that's built light for business travel.

Pros: Flip-out PC Card; good image quality; lithium-ion battery extends power life.

Cons: No flash; need PC Card slot to transfer images to computer.

$499 est. street price
Toshiba America Information Systems
(800) 288-1354, (714) 583-3000
Reader Service No. 622

Mitsubishi DJ-1000

★★★

Verdict: A palm-size camera for pennies.

Pros: Compact size; great price; easy image transfer.

Cons: No flash; no data panel; proprietary image format; need PC Card slot to transfer images to computer.

$200 est. street price
Mitsubishi Electric America
(714) 220-2500
Reader Service No. 623

PRODUCT PHOTOGRAPH BY ARNOLD TIOSEJO

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

SOUND BLASTER®
SPEAKERS
PC-DVD™
GRAPHICS CARDS
MULTIMEDIA KITS

Upgrade your PC to Cinema-Quality Video & Crystal-Clear Sound. Introducing PC-DVD™ Encore™.



Incredible Value! $379.99ESP*



Tomorrow's Technology at a Knock-Out Price Today!

Energize your senses with the unparalleled multimedia experience of PC-DVD Encore featuring Creative's exclusive DynamicXtended Resolution™ (Dxr2™) technology. Now, watch the hottest films and experience the enhanced definition, multi-channel Dolby Digital audio and full-motion MPEG-2 video that PC-DVD Encore delivers. Get superior output on your PC, or connect to your TV. Creative's proprietary software interface provides a complete range of viewing features, while the drive is fully backwards compatible, reading all CD formats. For more information, check out our Website at **www.soundblaster.com.**

Creative's PC-DVD Encore—The Complete Solution:

Revolutionary Dxr2 Decoder Card with DynamicXtended Resolution
- Connects to your TV with composite or S-video outputs
- *Interfaces* with your Dolby® Digital receiver for multi-channel, theater-like audio
- Sharpens MPEG-2 images to deliver enhanced definition, full motion video

High Performance Creative PC-DVD Drive
- Second generation, high-speed PC-DVD drive accesses DVD data twice as fast
- Reads all standard CD-ROM data at 20x, including CD-R and Photo CD®
- Reads large capacity DVD-ROM's—up to 17GB and 25 times more data than a standard CD

Cutting-Edge DVD Titles and Proprietary Software Interface
- Includes DVD megahits, exclusively for PC-DVD Encore
- Software interface allows fast forward/reverse, slow motion, stop action and crystal-clear single frame viewing

THE GREAT 64 GOLD GIVEAWAY
WIN GOLD!
TO ENTER, VISIT US AT: HTTP://GOLD.SOUNDBLASTER.COM

The Hottest Upgrades Create The Coolest PC.

CREATIVE
WWW.SOUNDBLASTER.COM

* Estimated Street Price

Creative Labs Inc. and the Creative logo are registered trademarks and PC-DVD, Dxr2 and DynamicXtended Resolution are trademarks of Creative Technology Ltd. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories. All other brand and product names are trademarks or registered trademarks of their respective holders. ©1997 Creative Technology Inc. All rights reserved. Printed in the USA.

Circle 110 on reader service card.

DVD Goes to Work

SNEAK PREVIEW

It's the new tune of the working-man's blues. Your glimmering big-screen home machine makes your PC at work feel like a worthless block. But thanks to two new DVD workhorses, you get all the multimedia muscle of a home machine in simple vanilla boxes that fit right in at the office. The Gateway 2000 G6-266M and the Unicent Titana II 266XLP-DVD both come packed with 266MHz Pentium II processors, MPEG-2 cards, DVD drives, pulsing sound systems, and video cards that eat 3-D graphics for breakfast.

While the Titana II has a much kinder price, the Gateway G6-266M packs in the very best of multimedia technology. And it's now the fastest Pentium II 266MHz machine we've tested.

Silver Screen Convincing the bean counter to cough up nearly $5,000 for a single system may require a big song and dance. But it's worth putting on your dancing shoes for the Gateway G6-266M.

While it's cleverly disguised in a beige tower, the system's innards closely mimic Gateway's home machine, the Destination Big Screen PC/TV (see "PC? TV? No, Both," August, page 92). The G6-266M offers an awesome 21-inch Vivitron 1100 monitor and a spacious 9GB hard drive.



Office Monsters: Two new business machines from Gateway 2000 (left) and Unicent are multimedia warriors in plain office dress, subtly armed with DVD power.

Once the machine was running, the DVD—powered by a Toshiba DVD drive and Chromatic Research's Mpact media processor—didn't skip a beat. Digital video never had it so good, filling up the 21-inch screen at high resolutions. Plug in the Boston Acoustic Hi-Fidelity speakers, and you have an office-camouflaged home theater system.

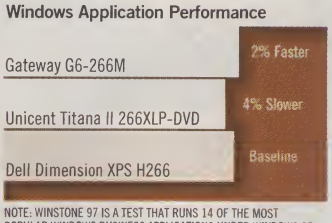
On the downside, the tower is so tall that you may have a hard time fitting it under your desk. And it's no surprise that the big monitor takes up a lot of room on your desk.

You won't have to dance as hard to get the Unicent Titana II. The machine costs nearly $1,500 less than the Gateway. You give up surprisingly little in performance, though the hard drive is half the size, the monitor is only 17 inches, and you get less software.

Bargain Matinee The Titana's DVD performance was less impressive. Even with the built-in MPEG-2 decoder card, the video performance left us wanting more. The video window can't expand to full-screen, fast-action scenes were a bit choppy, and a lot of the video was laden with jaggies. While it's good enough to watch the occasional DVD video, it's not the kind of quality that will encourage you to show it off to your coworkers.

If it fits your company's budget, get the Gateway G6-266M. Its price is hefty, but if you plan to use a lot of DVD it works wonders. For stricter budgets, the Unicent Titana II 266XLP-DVD makes a great multimedia powerhouse. Just think of its DVD as a little extra bonus. JACK LYON

Under the Hood
Windows Application Performance



NOTE: WINSTONE 97 IS A TEST THAT RUNS 14 OF THE MOST POPULAR WINDOWS BUSINESS APPLICATIONS UNDER WINDOWS 95 AND WINDOWS NT.

Fast Forward: While neither machine offers runaway performance, the Gateway G6-266M now ranks as the fastest 266MHz Pentium II machine we've tested.

FILEBOX

Gateway G6-266M

★★★★

Verdict: With this much DVD and multimedia prowess, it'll be hard to get any work done.

Pros: Hypnotic DVD power; eye-opening screen size; heavy-duty speeds; great software bundle.

Cons: Big price; no included DVD titles; space-hogging tower design.

Features As Tested: 266MHz Pentium II, 32MB of EDO DRAM, 512K cache, STB AGP graphics card with 4MB of RAM, 9GB SCSI hard drive, Toshiba DVD drive, Chromatic Research Mpact media processor, TR4 SCSI tape drive, 56Kbps fax modem, 21-inch monitor.

$4,742 est. street price
Gateway 2000
(888) 888-0237, (605) 232-2023
Reader Service No. 624

Titana II 266XLP-DVD

★★★

Verdict: The most affordable multimedia workhorse around, but the DVD could be better.

Pros: Outstanding performance for the price; compact tower design.

Cons: Choppy DVD video; skinny software bundle; slow modem; small screen.

Features As Tested: 266MHz Pentium II, 32MB of EDO DRAM, 512K cache, Matrox Millennium II graphics card with 4MB of RAM, 4.3GB SCSI hard drive, Toshiba DVD drive, Quadrant Cinemaster MPEG-2 card, 33.6Kbps fax modem, 17-inch monitor.

$3,299 est. street price
Unicent Technologies
(800) 320-1475, (216) 344-2649
Reader Service No. 625

PHOTOGRAPH BY ARNOLD TIOSEJO

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

Upgrade to Chest-Thumping, Soul-Satisfying Sound.

SOUND BLASTER®
SPEAKERS
PC-DVD™
GRAPHICS CARDS
MULTIMEDIA KITS



MicroWorks™ by Henry Kloss

"The Cambridge SoundWorks Lineup Performs Far Beyond It's Price And Size Class."
— *Stereo Review*

Turn Your PC's Speakers Whine into a Roar!
Don't suffer through the tinny sound of your PC's speakers! Cambridge SoundWorks®, designers of highly acclaimed home theater speakers, introduces the ultimate in high performance, value priced speaker systems for your PC. These amplified subwoofer/satellite speakers allow you to hear everything—from the lyric melody of a violin to the high-powered roar of a jet at mach 5. Creative Labs and Cambridge SoundWorks—bringing home stereo audio to your PC at prices that can't be beat! For more information, check out our Website at **www.soundblaster.com.** or call 1.800.998.5227.

Introductory Price $99.99 ESP*



PC Works™
Enjoy the best home stereo audio value for your PC

"Overall Sound Quality is Very Clean, With Well-Defined Highs, Clear Mids, and Solid Bass."
-Computer Gaming World



SoundWorks®
Experience low bass, accurate stereoimaging and superior tonal balance on your PC

"May Just Outclass Your Home Hi-Fi."
- PC Gamer



MicroWorks™
Feel the ultimate in window-rattling, earth-shaking bass on your PC

"I Assumed That They Were Powered By Testosterone Rather Than Electricity."
-PC World

THE GREAT 64 GOLD GIVEAWAY
WIN GOLD!
TO ENTER, VISIT US AT: HTTP://GOLD.SOUNDBLASTER.COM

The Hottest Upgrades Create The Coolest PC.

CREATIVE®
WWW.SOUNDBLASTER.COM

*Estimated Street Price.

The Creative logo and Sound Blaster are registered trademarks and PC-DVD and The Great 64 Gold Giveaway are trademarks of Creative Technology Ltd. in the United States and/or other countries. Cambridge SoundWorks and SoundWorks are registered trademarks and PCWorks and MicroWorks by Henry Kloss are trademarks of Cambridge SoundWorks, Inc. in the United States and/or other countries. ©1997 Creative Technology Inc. All rights reserved. Printed in the USA.

Circle 111 on reader service card.

Color Paper Chaser

SNEAK PREVIEW

Turning a pile of paper into searchable, manageable files stored on your hard drive isn't difficult thanks to personal document scanners like the Visioneer PaperPort. Unless the documents you need to capture are in color, that is. But with Visioneer's latest document destroyer, the PaperPort Strobe, you can scoff at multicolored paper stacks too.



Feed Me Color: Visioneer's popular PaperPort scanner gains color support and a sleek design. The new model, called the Strobe, is faster and makes your paper piles even easier to manage.

Quick Scan The Strobe is more than an easy answer to color-document scanning. This sheet-fed scanner is small enough to fit in a briefcase. Its funky design, tiny 11-by-2-by-2.5-inch dimensions, and 1.5-pound weight make it easy to take on the road. Like the original PaperPort, the Strobe's simplicity is its winning feature. Just insert the photo or document you want to scan into the Strobe and it starts automatically—there's no need to launch any software.

On top of that, the Strobe is fast. It zips through scanning text documents and pictures at 300 dpi in seconds. And it easily handles items up to 8.5 inches wide and 30 inches long. Feed it anything from business cards to extra-long newspaper clippings. You can even send delicate items like photographs straight through, or adjust the paper path so documents curve up and back to you.

The Strobe is a parallel-port scanner but includes a pass-through connection for your printer, desktop camera, or other parallel device so you don't have to constantly swap any connected hardware.

The Strobe comes with Visioneer's PaperPort 5.0 software. PaperPort displays scanned documents and photos as thumbnails. You can either edit them within PaperPort or drag and drop thumbnails onto applications that launch directly from PaperPort. For example, drop an image onto a Web-publishing app such as Adobe PageMill or Microsoft FrontPage 97, and the photograph automatically becomes a GIF or JPEG file. Text can be automatically converted to HTML.

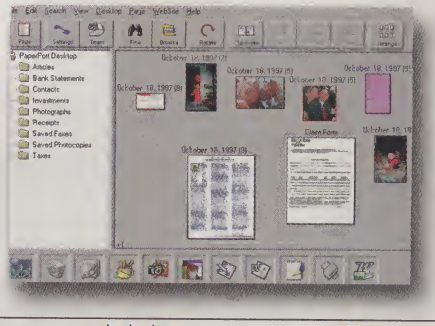
PaperPort 5.0 has a Windows Explorer–like document-management system with sophisticated search features, quick correction tools for red-eye and crooked scans, and a Picture Wizard that walks you step-by-step through a full image-correction process. PaperPort is the Strobe's biggest software draw, but the scanner also comes with Xerox TextBridge, Corex Technologies CardScan SE, Intuit Quicken ExpensAble SE, PictureWorks PhotoEnhancer, and Connectix QuickCards LE.

Most scanners use a series of lenses and mirrors that take up more room and slow things down. The Strobe processes its 24-bit color with the new MicroChrome capture technology, which uses a row of sensors to bounce light off the paper you're scanning.

Nice Color On scanned documents colors differ slightly from the originals but look rich and acceptable overall for a scanner of this price.

The Strobe may not be for you if you need top-end color scanning. If you're scanning photos for professional use, take the flatbed route. But if you're looking for a fast and easy way to add color photos to flyers and e-mail or you just want to tame that paper beast on your desk, you can't beat the Strobe's size, clean design, and great software bundle.

LIESL LA GRANGE NOBLE



View from Inside: The Strobe scans any color document and displays it as a thumbnail image for quick processing.

PHOTOGRAPH BY ARNOLD TIOSEJO

FILEBOX

PaperPort Strobe

★★★★

Verdict: The best personal document scanner around now handles color.

Pros: Lightning-fast color scanning; loaded with great software; easy to use; fits in your shoulder bag.

Cons: Color quality and details aren't as accurate as with a color flatbed scanner; some settings are hard to change.

Competition: Storm Technology's EasyPhoto SmartPage Pro costs $199 and has a detachable head for scanning large items. However, it doesn't include PaperPort software for managing documents.

System Requirements: Windows 95, 486 CPU, 16MB of RAM, 25MB of hard disk space.

$299 est. street price
Visioneer
(800) 787-7007
Reader Service No. 626

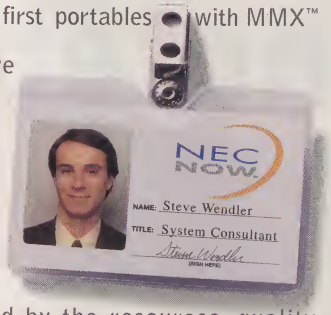
Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

We've contributed several advances to the notebook PC.



Like inventing it.

NEC also introduced the first color laptop. The first notebook with an active matrix display and modular components. And one of the first portables with MMX™ technology. What's more, we offer the most extensive selection of notebooks available.



Our approach to direct sales is no less innovative. NEC NOW℠ connects you with System Consultants who have the expertise to match the right notebook to your unique situation. And NEC NOW is backed by the resources, quality and dependability of one of the world's largest computer companies. We even give you the choice of working through a qualified NEC reseller partner.

Why NEC NOW?

- The security of partnering with a company known for its technological innovations.
- The flexibility of ordering direct or through a reseller.
- The expertise of System Consultants.
- The immediate availability of competitively priced products.
- The resources of one of the world's largest computer companies.

NEC NOW

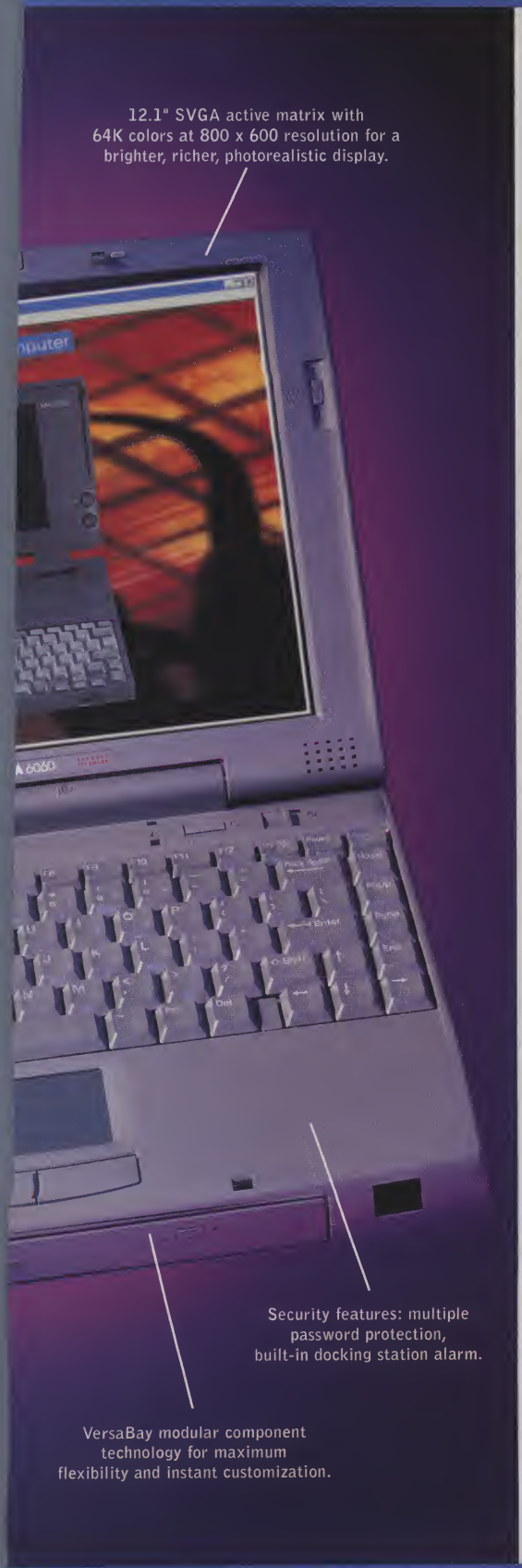
So when you need a notebook PC, call the company that invented it. And reinvented direct sales.

MMX™ intel inside pentium® PROCESSOR



©1997 NEC Computer Systems Division, Packard Bell NEC, Inc. NEC, Versa, and MultiSync are registered trademarks; VersaBay, A700, C700, C500, ESM, PortBar, MiniDock and Express5800 are trademarks, and UltraCare is a service mark of NEC Corporation, all used under license by Packard Bell NEC, Inc. Direction, VersaNote, VersaExec, and MagicEye are trademarks and NEC NOW is a service mark of Packard Bell NEC, Inc. Leasing based on typical 36-month lease with purchase option. Other lease options may be available, leasing arranged by third party leasing company to qualified customers. Prices do not include shipping or applicable sales tax, are valid in the US only and are subject to change without notice. Products and specifications are subject to change without notice. *Product is 56Kbps capable. However, due to FCC rules which restrict power output of the service providers' modems, current download speeds are limited to approximately 53Kbps. Actual speed may vary depending on line conditions. MS, IntelliMouse, Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation. NetWare and Novell are registered trademarks of Novell, Inc. The Intel Inside logo, LANDesk and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. All other trademarks and registered trademarks are property of their respective owners.

BUILT TO ORDER



NEC Versa® 6060 Series *High performance desktop replacements.*

Common Features: PCI Bus with 128-bit Graphics Accelerator • 32-bit CardBus Support • 2MB VRAM • Integrated 16-bit Stereo Sound • USB Port • VersaBay™ II Option Slot Accepts CD-ROM, Floppy Drive (both included), Optional 2nd Hard Drive and 2nd Battery • Lithium Ion Battery • DMI 2.0 Compliant • Intel LANDesk® Manager 3.0 • Microsoft® Windows® 95 • Upgradeable 3-Year Limited Warranty

Versa 6060

- 166MHz Pentium® processor with MMX technology
- 12.1" SVGA Active Matrix TFT Color Display
- 32MB EDO DRAM (80MB max)
- 2.1GB Hard Drive/20X max CD-ROM
- U.S. Robotics® x2™ XJACK® 56Kbps* Fax Modem
- * Optional 2nd Lithium Ion Battery, add $199
- * Optional Versa Docking Station 6000 plus, add $899
- * Optional VersaExec™ Leather Carrying Case, add $199
- * Upgrade to MS® Windows NT® 4.0, add $99

$3849
Business Lease: $135/mo.

Versa 6060

- 166MHz Pentium processor with MMX technology
- 12.1" SVGA Active Matrix TFT Color Display
- 16MB EDO DRAM (80MB max)
- 2.1GB Hard Drive/20X max CD-ROM
- * Optional U.S. Robotics x2 XJACK 56Kbps* Fax Modem, add $199
- * Optional 2nd Lithium Ion Battery, add $199
- * Optional VersaPro Ballistic Nylon Carrying Case, add $99
- * Optional Versa MiniDock™ 6000, add $499

$3499
Business Lease: $126/mo.

NEC Versa 2700 Series *All-in-one convenience at a sensible price.*

Common Features: PCI Bus with 128-bit Graphics Accelerator • 256KB L2 Pipeline Burst Cache • 32-bit CardBus Support • 2MB VRAM • USB Port • 56Kbps* Integrated Modem • Stereo Speakers and Subwoofer with 3D Stereo Sound • DMI 2.0 Compliant • Intel LANDesk Manager 3.0 • MS® Windows 95 • Bundled Microsoft Software Including MS Word 97 • Upgradeable 1-Year Limited Warranty

Versa 2760MT

- 166MHz Pentium processor with MMX technology
- 12.1" SVGA Active Matrix TFT Color Display
- 16MB EDO DRAM (96MB max)
- Built-in 2.1GB Hard Drive, 16X max CD-ROM, 1.44MB Floppy Drive, and Lithium Ion Battery
- * Upgrade to 48MB RAM, add $299
- * Optional Lithium Ion Battery, add $199
- * Optional Versa PortBar™ 2700 Port Replicator, add $159
- * Optional NEC Xircom 10Base-T Network Card, add $139

$3199
Business Lease: $115/mo.

Versa 2730M

- 133MHz Pentium processor with MMX technology
- 12.1" SVGA DSTN Color Display
- 16MB EDO DRAM (96MB max)
- Built-in 1.44GB Hard Drive, 16X max CD-ROM, 1.44MB Floppy Drive, and NiMH Battery
- * Upgrade to 32MB RAM, add $159
- * Optional Lithium Ion Battery, add $199
- * Optional VersaNote™ Ballistic Nylon Carrying Case, add $69
- * Upgrade to a 2.1GB Hard Drive, add $149

$2349
Business Lease: $85/mo.

NEC Versa 6200 Series *The ultimate power notebooks.*

Common Features: 64-bit CPU and 32-bit PCI Bus Architecture • 32-bit CardBus Support • 2MB VRAM • 16-bit Stereo Sound with 3D Spatializer Technology • VersaBay II Option Slot Accepts CD-ROM, Floppy Drive (both included), Optional 2nd Hard Drive and 2nd Battery • MS Windows 95 • Lithium Ion Battery • Upgradeable 3-Year Limited Warranty

Versa 6200MX

- 13.3" XGA Active Matrix TFT Color Display
- 166MHz Pentium processor with MMX technology
- 64MB EDO DRAM (128MB max)
- 3GB Hard Drive/10X avg CD-ROM
- * Optional 2nd Lithium Ion Battery, add $199
- * Optional U.S. Robotics x2 XJACK 56Kbps* Fax Modem, add $199
- * Optional VersaExec™ Leather Carrying Case, add $199
- * Optional Versa Docking Station 6000 Plus, add $899

$4599
Business Lease: $161/mo.

Versa 6200MX

- 13.3" XGA Active Matrix TFT Color Display
- 166MHz Pentium processor with MMX technology
- 32MB EDO DRAM (128MB max)
- 2.1GB Hard Drive/10X avg CD-ROM
- * Upgrade to 64MB RAM, add $299
- * Optional NEC Xircom 10Base-T Network Card, add $139
- * Optional VersaPro Ballistic Nylon Carrying Case, add $99
- * Optional Versa MiniDock 6000, add $499

$3999
Business Lease: $140/mo.

To order, get a free catalog or find your nearest reseller call:
Mon-Fri 8am-8pm EST

1-888-8-NEC-NOW

Dept. No. PC577A **www.necnow.com**

Circle 219 on reader service card.

NEC



NEC Direction™ PCs *A new direction in cutting edge technology.*

Common Features: Mini-Tower or Desktop Tool-Less Chassis • 24X max CD-ROM • 3.5" Floppy Drive • MS Windows® 95 • MS Office 97 SBE • 2 USB Ports • Microphone • Palmrest Keyboard and MS IntelliMouse® • 3-Year Limited Warranty with 1-Year On-Site Service • *DirecPC Satellite Dishes are Now Available as Upgrades on all Direction Systems*

Direction SPL300

- 300MHz Pentium® II processor with MMX™ technology/512KB Integrated L2 Cache
- ATX Motherboard with 440LX Chip Set
- 6.4GB Ultra DMA Hard Drive, 9.5ms/64MB SDRAM
- Number Nine AGP Revolution, 8MB WRAM
- Altec® ACS-45 Speakers/Wavetable Audio
- U.S. Robotics 56Kbps* Data/Fax/Voice Modem
- Iomega® Zip Drive
- NEC C700 17" Monitor (16" v.i.s.)

* Upgrade to Altec ACS-410 Speakers with ACS-251 Subwoofer, add $69

* Upgrade to NEC MultiSync® A700™ 17" Monitor (15.6" v.i.s.), add $229

$3499
Business Lease: $126/mo.

Direction SPL233

- 233MHz Pentium II processor with MMX technology/512KB Integrated L2 Cache
- ATX Motherboard with 440LX Chip Set
- 4.3GB Ultra DMA Hard Drive/32MB SDRAM
- 4MB SGRAM AGP Graphics Card
- Altec ACS-90 Speakers/Integrated Yamaha Sound
- U.S. Robotics 56Kbps* Data/Fax/Voice Modem
- NEC C550 15" Monitor (14" v.i.s.)

* Upgrade to 7.0GB Hard Drive, add $109

* Upgrade to Number Nine AGP Revolution 3D, 4MB WRAM, add $219

$2199
Business Lease: $79/mo.

Direction SPL300

- 300MHz Pentium II processor with MMX technology/512KB Integrated L2 Cache
- ATX Motherboard with 440LX Chip Set
- 7.0GB Ultra DMA Hard Drive/64MB SDRAM
- 4MB SGRAM AGP Graphics Card
- Altec ACS-90 Speakers/Wavetable Audio
- NEC C700 17" Monitor (16" v.i.s.)

* Upgrade to Number Nine AGP Revolution 3D, 4MB WRAM, add $219

* Upgrade to Iomega Zip Drive, add $99

$2949
Business Lease: $106/mo

Direction SPL266

- 266MHz Pentium II processor with MMX technology/512KB Integrated L2 Cache
- ATX Motherboard with 440LX Chip Set
- 4.3GB Ultra DMA Hard Drive/32MB SDRAM
- 4MB SGRAM AGP Graphics Card
- Altec ACS-90 Speakers/Integrated Yamaha Sound
- NEC C550 15" Monitor (14" v.i.s.)

* Upgrade to Wavetable Audio, add $49

* Upgrade to NEC C700 17" Monitor (16" v.i.s.), add $199

$2329
Business Lease: $84/mo



NEC Express5800™ Series Servers *Servers that grow with your business.*

Common Features: Integrated PCI Wide Ultra SCSI Disk Controller • Integrated PCI SCSI Controller for Media Bays • Integrated SVGA Controller • 1MB VRAM (upgradeable to 2MB) • 12X CD-ROM • 3.5" Floppy Drive • Mouse and Keyboard • NEC ESM™ Pro Server Management Software • MS Windows NT Server 4.0 and NetWare® 4.11 Certified • 3-Year On-Site Service Warranty

Express5800 LE2200

- Dual Capable Pentium II System w/one 266MHz Pentium II processor/512KB Integrated L2 Cache
- 64MB ECC DIMM Memory (512MB Maximum)
- One 4.3GB Ultra Wide SCSI Disk
- 8 Expansion Slots, 4 PCI, 3 ISA, 1 Shared
- 7 Drive Bays, 3 External 5.25", 4 Internal 3.5"
- Optional Second 266MHz/512KB Pentium II processor, add $1099
- Additional 64MB of ECC Memory, add $449

* Optional PCI Ultra Wide SCSI RAID Controller, add $1349

* 2/4/9GB Ultra Wide SCSI Disk Drives for up to 36GB of Storage Space, add $529/$849/$1299

* Optional MS Windows NT Server 4.0, add $799

$3959
Business Lease: $139/mo.

Express5800 LE2000

- Dual Capable Pentium Pro System w/one 200MHz Pentium Pro processor/256KB Integrated L2 Cache
- 32MB ECC DIMM Memory (1GB Maximum)
- One 2.1GB Ultra Wide SCSI Disk
- 8 Expansion Slots, 4 PCI, 3 ISA, 1 Shared
- 7 Drive Bays, 3 External 5.25", 4 Internal 3.5"
- Optional Second 200MHz/256KB *Pentium Pro* processor, add $799
- Additional 32MB of ECC Memory, add $189

* Optional PCI Ultra Wide SCSI RAID Controller, add $1349

* 2/4/9GB Ultra Wide SCSI Disk Drives for up to 36GB of Storage Space, add $529/$849/$1299

* Optional MS Windows NT Server 4.0, add $799

$2699
Business Lease: $97/mo.

MMX™ intel inside pentium® PROCESSOR

To order, get a free catalog or find your nearest reseller call:
Mon-Fri 8am-8pm EST

1-888-8-NEC-NOW

Dept.No. PC577A www.necnow.com

NEC

Circle 219 on reader service card.

More Screen for Your Money

A 21-inch monitor is a desktop dream for many of us, but one that's often rudely disturbed by sky-high prices or cramped cubicle spaces. But if you need more room to move, there's hope—try a 19-inch monitor. Sampo Technology's AlphaScan 810 and Hitachi/NSA's SuperScan Elite 751 give you a few more valuable inches than a 17-inch model and cost several hundred dollars less than the cheapest 21-inch screen.

With both products you'll notice a considerable increase in Windows desktop real estate. These displays offer an 18-inch viewable area—roughly 15 percent more space than a typical 17-inch monitor has. And despite their screen expanse, these monitors won't overtake your desktop—their depth isn't much more than that of the standard 17-inch footprint. Another bonus: While 19-inch monitors don't provide as much room as their 21-inch counterparts, they don't eat as much power, either.

Super Screen The Sampo AlphaScan 810 is easy to control and gives you a step up in size with no sacrifice in display quality. It has a bright screen with good color. The simple, understandable bezel controls let you easily adjust the picture as well as check current refresh rates with a few touches.

The AlphaScan 810 can hit the high resolutions—it shows up to 1,600 by 1,200 resolution with very little flicker thanks to its high refresh rates (75Hz). Its 0.26mm dot pitch produces sharp, consistent text and graphics. At $800 the AlphaScan 810 is within the 17-inch monitor price range, and its high-quality features make it a great bargain.

The Hitachi/NSA SuperScan Elite 751 doesn't disappoint in image size or quality either. Its onscreen area is enhanced by a trim bezel, making it look even larger than its 18 inches. Like the AlphaScan, the SuperScan Elite displays bright, beautiful colors. And the Hitachi/NSA monitor also hits high resolutions, showing up to 1,600 by 1,200 at 75Hz with little visible flicker at all.

The SuperScan Elite 751 does have a few hitches, however. Its control panel is a sea of confusing buttons that take a while to master. We prefer the minimalist style of the Sampo AlphaScan 810. And while the SuperScan Elite 751's 0.22mm dot pitch and improved electron gun give you razor-sharp text in the center of the screen, images lose focus around the edges of the display. And at $1,099, while still reasonably priced, it's no bargain compared with the Sampo.

How Much Bigger? Should you trade up to a 19-inch monitor, stick with your trusty old one, or hold out for a bigger screen? It depends on what you need. If you do a lot of graphics work and depend on ultrahigh resolutions to get your job done, a high-caliber 21-inch monitor's vast acreage and 1,600 by 1,200 resolution with refresh rates over 75Hz is worth the premium price.

If you're struggling with your 17-inch display and want an affordable big screen but don't want to take a step back in image quality, take a serious look at these 19-inch models. You'll see the difference. Either of these monitors will give you a great desktop view, but for price, quality, and usability, the Sampo AlphaScan 810 comes out on top. JULIE POLITO

FILEBOX

Sampo AlphaScan 810

★★★★

Verdict: A big, bright screen without a giant price.

Pros: Great image quality; easy controls.

Cons: Slight flicker at high resolutions.

Features As Tested: 18-inch viewable area; 1,600 by 1,200 maximum resolution at 75Hz; onscreen controls; 0.26mm dot pitch; flat-square InvarMask CRT; Plug and Play; VGA cable.

$800 est. street price
Sampo Technology
(888) 321-4100, (770) 449-6220
Reader Service No. 627

SuperScan Elite 751

★★★

Verdict: A solid trade-up from your smaller monitor.

Pros: Nice color; sharp text.

Cons: Too many controls; images lose focus at the edges.

Features As Tested: 18-inch viewable area; 1,600 by 1,200 maximum resolution at 75Hz; 0.22mm dot pitch; onscreen controls; Invar Shadow Mask CRT; Plug and Play; VGA cable.

$1,099 est. street price
Hitachi/NSA
(800) 441-4832, (617) 461-8300
Reader Service No. 628



PHOTOGRAPH BY ARNOLD TIOSEJO

Catch an Eyeful: Tired of squeezing your Windows onto a 17-inch screen but can't afford a full 21 inches? Don't despair, check out a 19-inch monitor from Sampo (left) or Hitachi/NSA.

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

Color for Every Occasion

Image is everything. And if you aren't printing everything in color, your image isn't as good as it could be. Whether you're looking for the perfect color printer for the office or the home, the Canon BJC-7000 gives you the color advantage—for under $450.

Canon's new line of printers runs the gamut of features and options, but one thing is certain: Your budget can accommodate any one of them. We tested the high-end Canon BJC-7000, which provides 1,200-by-600-dpi black and color output and costs $449. For $239 Canon offers the BJC-4304, a solid all-around 720-by-360-dpi printer with a twist: For just $99 you can purchase a scanner that swaps with the print head. At the low end Canon has the $179 BJC-250, a good solution for the home, with 360-by-360-dpi output in a compact design. For serious color work, however, you'll want to consider the BJC-7000.



Something for Everyone: Canon's $449 BJC-7000 (left) offers stunning 1,200-by-600-dpi output; the lower-end $239 BJC-4304 offers a $99 scanner option that you pop into the print head.

Ink to Paper The BJC-7000 is really a jack-of-all-trades printer. Text output with this printer is sharp and crisp, even on plain paper. Part of that is due to a new technology called Plain-Paper Optimized Printing, which gives high-quality results without breaking the bank on costly coated or glossy papers.

The BJC-7000's plain-paper graphics printing is satisfactory, but the results aren't as impressive as on coated paper. Unfortunately, if you use coated paper print times are a lot longer (and your costs higher). For a 3-page presentation on plain paper, the BJC-7000 took just over 13 minutes and the images showed some banding in the solid backgrounds, similar to the output of the Epson Stylus Color 800. (See "True-to-Life Color Everyone Can Afford," May, page 90.) When we printed the same presentation on coated paper, the output time nearly tripled but the results were breathtaking, with bright colors that would give a color laser printer costing ten times as much a run for its money.

Photo-Ready Ink-jet printers have made tremendous progress in producing good-looking photographic images. The BJC-7000 offers an optional Photo Ink cartridge, which puts out smoother images thanks to its seven tanks of ink. Photo Inks do a particularly nice job with flesh tones. In our tests, photographs were smooth and consistent with great color-matching. With the BJC-7000 you can print scanned images and digital photographs worth sharing.

If you're like many users and think that scanning images is a costly and time-consuming process, you may want to look closely at the BJC-7000's sibling, the BJC-4304. The revolutionary $99 scanner option is the cheapest around, and it's as easy to use as your printer. Just pop the scanner in place of the print cartridge, and you can scan using TWAIN-compliant software or the IS Scan TWAIN Driver software that Canon includes. The scanner supports up to 360-dpi color scanning and is fairly quick. There is currently no scanner option available for the BJC-7000.

Bottom line: If you're in the market for a versatile color printer, check out the new models from Canon. And if you want top-notch color and text output, you can't miss with the $449 BJC-7000. It's easy to use and produces knockout photos, presentations, and text documents. KYLA K. CARLSON



PC Computing Image Test

One to Show: Photographs from an ink jet have never looked so good. With Canon's optional new seven-color Photo Ink cartridge, the BJC-7000 delivers eye-popping photo images.

PHOTOGRAPH BY ARNOLD TIOSEJO

FILEBOX

Canon BJC-7000

★★★★

Verdict: A versatile ink-jet printer that serves your text and graphics needs.

Pros: Excellent text quality, optional photographic inks for top-notch photo images.

Cons: Slow performance when you use special paper.

Cost per Page: Four cents per page for black and white on plain paper, 10 cents per page for color. Coated paper costs 50 cents or more per sheet.

Features As Tested: 1,200-by-600-dpi resolution; Canon Creative Software 3.

$449 est. street price
Canon Computer Systems
(800) 848-4123
Reader Service No. 629

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

Superior performance for *business* computing

Matrox Mystique® 220 Business - award winning performance at a new low price



The new *Matrox Mystique 220 Business* graphics accelerator provides a high performance, all-in-one solution for demanding business applications. Featuring a new, high-speed 220 MHz RAMDAC and fast SGRAM memory, *Mystique 220 Business* delivers benchmark-winning speed and refresh rates with exceptional display quality. Its state-of-the-art design integrates acceleration for 2D, 3D, and video, so you'll be ready for today's and tomorrow's Windows® NT and 95 applications. What's more, Matrox protects your investment by building an affordable memory and video upgrade path into every product. Add up to 8 MB of SGRAM power or the Matrox Rainbow Runner Studio for video editing, video conferencing, MPEG computer based training, and much more.



With over 20 years of experience and 250 international awards of excellence, Matrox is the company you can rely on. Choose the leader in acceleration. Choose Matrox.



Matrox outperforms the competition (16-bit)



Mystique 220 Business

- Fast 2D Windows, 3D business graphics and video presentations.
- Includes 6 free software titles. $500 value.



Matrox Five Pack

- Includes five boards, one manual, five sets of drivers, and five sets of software bundles.



Matrox Rainbow Runner Studio

- Ideal for video editing, video conferencing, PC to TV output, 'PC-VCR' video capture, and hardware MPEG video.
- Includes 4 free software titles. $500 value.

matrox

1-800-583-4353 http://www.matrox.com/mga

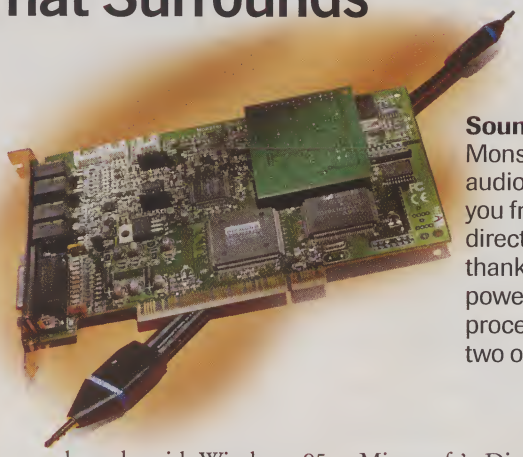
PC Computing BEST July 1997

OVER 250 AWARDS matrox

* Estimated Street Price. All performance tests conducted by Matrox Graphics Inc. Windows 95 tests conducted on Dell XPS H266 configured with an Intel Pentium® II, 266 Mhz processor with 512K cache and 32 MB RAM. Matrox Mystique 220 Business, Diamond Stealth 3D 2000 Pro, STB Nitro 3D and ATI ProTurbo + PC2TV were configured with maximum memory configurations using driver revisions 3.63, 3.63, 4.03.00.3211, 1.52A and 4.03.2162 respectively. WinBench 97 business tests conducted at 1024X768 @ 16-bit at 75 Hz using small fonts under Windows 95.

Circle 154 on reader service card.

Get Sound That Surrounds



Sound Off: The Monster Sound's audio comes at you from all directions, thanks to its powerful sound processing and two out ports.

Better clear off a little desk space in your den. You'll need it if you want to add Diamond Multimedia's Monster Sound to your PC. While the 3-D audio card fits neatly inside your computer, the second set of external speakers that it supports doesn't.

The Monster Sound is the first audio card designed to make use of a quartet of speakers, providing true three-dimensional sound. While you don't need four speakers to get the full 3-D effect, it sure is fun.

Diamond uses a technology called A3D—not to be confused with Dolby's AC-3. A3D calculates sound placement in real time regardless of how many speakers you have.

Unfortunately, the card works only with Windows 95 titles. The good news is that installing the Monster Sound in a system with an existing card or onboard sound chip is painless. The sound card is the first to use PCI, so it doesn't need to haggle for resources with your ISA-based board.

The Monster Sound works with any games that meet Microsoft's DirectSound and DirectSound 3-D standards. But for the best effects, it needs games designed specifically for A3D. Many games are in the works for A3D; in the meantime Diamond gets you started with a few popular bundled titles: GT Interactive TigerShark, LucasArts Outlaws, SegaSoft Rocket Jockey, and Maxis SimCompter.

If you're a gamer, you'll want the Monster Sound. For those who play only occasionally, a more versatile sound card is the better buy.

CHRISTINE GRECH WENDIN

FILEBOX

Monster Sound

★★★★

Verdict: An easy way to pump up the volume and realism of your games with real 3-D sound.

Pros: Excellent 3-D audio; easy installation; coexists with your sound card; supports four speakers.

Cons: Works only with Windows 95 games; requires powered speakers.

$200 est. street price
Diamond Multimedia
(800) 468-5846
Reader Service No. 630

Hitachi Home Electronics MP-EG1A

Desktop-Ready Digital Video



Instant Replay: Hitachi's MP-EG1A captures compressed video that's ready to roll.

Digital video is a great way to make your point and impress clients, but is it worth sitting around while video files transfer from camera to computer? In the case of Hitachi's new MP-EG1A camcorder, absolutely. The MP-EG1A drops MPEG-1 compressed digital video into your PC as fast as you can insert a PC Card into its slot.

This all-digital camcorder fits into the palm of your hand and shoots up to 20 minutes of full-motion MPEG-1 video with one touch. It also stores 3,000 still JPEG images or four hours of CD-quality audio, and holds everything on a 260MB Type III PC Card. Video frames are small but smooth, 352 by 240 pixels at 30 fps. Still images have a maximum resolution of 704 by 480.

There are other digital video cameras out there, but they force you to use a video-capture card to get video to your PC. Since the MP-EG1A's digital video is already compressed on a PC Card, there's no headache of transferring huge files from camera to computer. Just move the images from the PC Card to your computer and you're rolling in no time.

An LCD screen serves as a viewfinder or playback display for your masterpieces.

At $2,499, the camera isn't affordable for everyone. But if you're ready to add some action to your presentations, this camera is the easiest way to get moving. LAURA LINDHE

FILEBOX

MP-EG1A

★★★

Verdict: Delivers digital video directly to your desktop—but it will cost you.

Pros: Small; portable; fun to use; no compression headaches.

Cons: A high price to pay for 20 minutes of MPEG-1 video; nearly half the resolution of regular videotape.

System Requirements: Windows 95, 100MHz Pentium CPU, 16MB of RAM, 80MB of hard disk space.

$2,499 est. street price
Hitachi Home Electronics
(800) 241-5600
Reader Service No. 631

PHOTOGRAPHS BY ARNOLD TIOSEJO

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*



Still trying to decide

when to buy

a 56K modem?

Let us make it easy for you.

Now get

$50

cash back.



$50 (US) rebate offer replaces previous free month of ISP service (up to $25 US) for U.S. Robotics desktop modems only. Original free month of ISP service offer still applies to Megahertz® 56K PC Card modems, models XJ1560, CC1560, XJ5560 and CC5560.

1 All x2 products are capable of 56 Kbps downloads; however, due to FCC rules which restrict power output of service providers' modems, current download speeds are limited to 53 Kbps. Actual speeds may vary depending on line conditions. Uploads from users to providers travel at speeds up to 28.8 Kbps.
2 An x2-capable modem, an x2-compatible analog phone line and an x2-capable service provider are required for these high speed downloads. See www.usr.com/x2 for details.
3 Guaranteed upgrade valid for all currently available Sportster® 56K faxmodems (Models 1783, 1784, 1785, 1786, 1787 and 1789), Courier™ 56K faxmodems (Models 1867, 1868 and 1869) and Megahertz PC Card modems (Models XJ1560, CC1560, XJ5560, and CC5560). This offer valid in the U.S. and Canada only. Upgrades must be claimed by 6/30/98.

©1997 3Com Corporation. All rights reserved. 3Com, the 3Com logo, U.S. Robotics, the USRobotics logo, Megahertz and Sportster are registered trademarks and Courier, x2 and the x2 logo are trademarks of 3Com Corporation or its subsidiaries. All other company and product names are used for identification purposes only and may be trademarks and/or registered trademarks of their respective companies. Product specifications subject to change without notice. 8.1.97 #3021

x2™ Delivers...even more.

x2 Delivers...cash back and more

Every day, more and more information is added to the Internet. Like bigger data files, and richer graphics. You're going to need a faster modem than the 28.8K and 33.6K models out there now.

That's why we're making it easier for you to get the x2 technology 56K[1] modem, the fastest ever created for use with regular phone lines – by giving you $50 (US) cash back.

x2 Delivers...high download speeds now

You don't need to wait to take advantage of this modem's superior download speeds. That's because x2 technology has already received the support of more than 800 Internet service providers (ISPs), from industry giants like IBM Global Services, America Online, Prodigy and NETCOM to smaller regional providers. In fact, more than 700 of them are live today, offering local access. That means you can start downloading at high speeds in all 50 states right now with x2.[2] It's that simple.

x2 Delivers...free upgrade to standard

You may have heard that the international 56K modem standard hasn't yet been defined (expected in 1998). That's why we're offering a no-risk guarantee of a free upgrade to make your x2 modem meet this new standard after it's approved. And since x2 uses DSP Solutions technology from Texas Instruments, it can easily be software upgraded to receive future performance enhancements as they're developed.



x2 Delivers...guaranteed

To make it easier for you to experience x2 technology now, we're introducing "x2 Delivers More," a special program that will show you why buying an x2 modem now makes so much sense.

x2™ Delivers ...more!

$50 (US) CASH BACK

Now, instead of a free month of Internet service, we're offering a $50 (US) mail-in rebate when you purchase a U.S. Robotics x2 technology 56K desktop modem by 10/4/97. It's a great way to help you get even more out of the Internet.

CONNECT NOW in all 50 states and Canada

Right now, more than 700 ISPs are live with x2, so you can connect regardless of where you live.[2]

FREE UPGRADE to standard[3]

After the new 56K ITU-T standard is approved, we'll upgrade your U.S. Robotics x2 technology 56K modem to meet it – absolutely free.

30-DAY money-back guarantee

We're confident you'll be completely satisfied with your new x2 modem. If not, you can return it with your dated receipt within 30 days of purchase – no questions asked.

See the back cover for complete details of the x2 Delivers More program.

x2 Delivers...an easy choice

The ability to connect now in all 50 states and Canada. $50 (US) cash back. A free upgrade to standard. A 30-day money-back guarantee. It simply couldn't be any easier. For more information, visit our Web site at http://x2.usr.com/connectnow, or call 1-800-525-USR1 to find an ISP near you that offers live x2 service.

Now download at high speeds with the company that connects more people to the Internet than any other. To get the speed you need, just remember one thing: x2 delivers even more than before.

U.S. Robotics®

X2 TECHNOLOGY.

U.S. Robotics. From the leader in networking. 3Com

x2 Delivers ...more!

$50 (US) CASH BACK WHEN YOU BUY x2 TECHNOLOGY NOW
CONNECT NOW WITH MORE THAN 700 LIVE ISPs NATIONWIDE
FREE UPGRADE TO 56K ITU-T STANDARD
30-DAY MONEY-BACK GUARANTEE

Buy any Sportster® or Courier™ 56K modem with x2™ technology between July 1 and October 4, 1997 and get $50 (US) cash back plus upgrade to 56K ITU-T standard[1], FREE. And if you're not satisfied after 30 days you can return the modem for a full refund.

To get your $50 (US) cash back, just complete and return the form below.

Then, you'll also be registered for the free upgrade. After the ITU-T standard for 56K modems is approved, we'll upgrade your U.S. Robotics x2 technology 56K modem, free of charge. Since every x2 modem is equipped with Flash ROM, we expect the upgrade to be as simple as a software download from the Internet. If it's not, we'll replace your modem with one that does meet the new standard – free of charge. Register your modem, and after the 56K standard is approved by the ITU-T, we will notify you how and when to get your free upgrade. Approval is expected some time in early 1998.

And again, if you're not satisfied with your U.S. Robotics x2 technology 56K modem, simply return it within 30 days of purchase, along with dated receipt, to the store or mail order reseller where you bought it for a full refund.

This offer supersedes all other preceding x2 offers for Sportster and Courier desktop modems. Free month of Internet service offer still applies to Megahertz® 56K PC Card modems.

1 Guaranteed upgrade valid for all currently available Sportster 56K faxmodems (Models 1783, 1784, 1785, 1786, 1787 and 1789), Courier 56K faxmodems (Models 1867, 1868 and 1869) and Megahertz PC Card modems (Models XJ1560, CC1560, XJ5560 and CC5560). This offer valid in the U.S. and Canada only. Upgrades must be claimed by 6/30/98.

US Robotics x2 TECHNOLOGY

$50 Cash Back

TO HELP ENHANCE YOUR INTERNET EXPERIENCE

Get $50 (US) cash back from U.S. Robotics

To get your $50 (US) cash back:

1. Buy any Sportster or Courier modem listed below between July 1 and October 4, 1997.
2. Fill in all requested information on this form.
3. Enclose this completed form with a copy of your dated modem receipt, original UPC bar code symbol and serial number from the modem package (see samples below) and mail to:
   U.S. Robotics, x2 Delivers More, PO Box 8131, Young America, MN 55551-8131

Any questions regarding this program, please call 1-888-390-6863.
This offer supersedes all other preceding x2 offers for Sportster and Courier desktop modems. Internet service offer (up to $25 US) still applies to Megahertz 56K PC Card modems.

(Please print all information clearly.)

Name _____

Address _____

City _____ **State/Prov** _____ **ZIP/Post** _____

Phone _____ **E-mail Address** _____

Retailer / Mail Order Reseller where modem purchased _____

$50 (US) cash rebate offer valid with purchase of Sportster 56K Faxmodem models 1783, 1784, 1785, 1786, 1787 and 1789; and Courier 56K Faxmodem models 1867, 1868 and 1869 only; purchased between July 1 and October 4, 1997. Offer not valid with Megahertz PC Card modems. Request must include copy of dated modem sales receipt, actual UPC bar code and serial number from the modem package. Not responsible for lost, late or misdirected mail. Request must be postmarked by November 15, 1997. Valid in U.S. and Canada only. **Not valid with any other offer.** Please allow 6 to 8 weeks for receipt of check.

UPC SAMPLE



SERIAL NUMBER SAMPLE



The following UPC codes are the only acceptable codes for this offer. No other UPC codes are valid. Tape UPC bar code over this box.

7-38168-00611-3	7-38168-00612-0	7-38168-00613-7	7-38168-00614-4
7-38168-00615-1	7-38168-00616-8	7-38168-00630-4	7-38168-00629-8
7-38168-00682-3	7-36168-00686-1	7-36168-00669-4	7-36168-00670-0
7-36168-00687-8			

Tape serial number & bar code over this box.

Catch Video with Your Graphics Card

You're a businessperson, but what you *really* want to do is direct films. If you have a camcorder and a Matrox Graphics video card on your desktop system, Matrox's Rainbow Runner Studio lets you add flash to your home movies and video presentations.

The Rainbow Runner add-on card connects to the Matrox Mystique 220 (and soon to the Millennium II), letting you capture and output video. The Rainbow Runner offers high-quality capture technology and a complete software bundle at a terrific price. For video editing, it includes Ulead Systems' MediaStudio 2.5, which has enough sophisticated effects to suit the needs of most business and home video users.

The Rainbow Runner Studio also includes Ulead's iPhoto Express for image editing, VDOnet InternetVDO Phone for videoconferencing, and a remote control for video playback. The bundle does not include a video camera, but any camcorder or desktop digital camera works fine for capturing clips and videoconferencing. The Rainbow Runner also has an optional $79 TV tuner that scans closed-captioned text for keywords you select.

The main drawback to the Rainbow Runner is that it works only with the Matrox cards. If you aren't ready to upgrade your graphics card, you'll find comparable video-capture packages for less than the combined price of the Matrox Mystique 220 and the Rainbow Runner. But if you want to make your own movie masterpieces and you have a Matrox graphics card, the Rainbow Runner Studio is a terrific value. **DAVID GERDING**



Call Me Spielberg: The Matrox Rainbow Runner (left) and optional TV tuner let you direct your own desktop videos.

FILEBOX

Rainbow Runner Studio

★★★★

Verdict: A bargain way to spin your own video.

Pros: Clean video-capture quality; full-featured software bundle; optional TV tuner card.

Cons: Works only with Matrox graphics cards.

$199 est. street price
Matrox Graphics
(800) 361-1408
Reader Service No. 632

Cornerstone Imaging Cornerstone Color 45/101sf

Big Image, No Flicker

If you stare at a computer screen all day, your monitor is one of your most important productivity tools. A small, low-quality monitor can cost you a fortune in time and aspirin. The 19-inch Cornerstone Color 45/101sf monitor is large, sharp, and may keep your eyes on the job longer.

First of all, Cornerstone addresses screen size. Even 17-inch monitors skimp on space, yet roomy 21-inch screens can cost a bundle. Cornerstone's 19-inch display gives you the best of both worlds—an 18.1-inch viewable area with a sub-$1,200 price tag.

The Cornerstone Color can display images at resolutions of up to 1,600 by 1,200 pixels with a maximum refresh rate of 81Hz. This rate means razor-sharp text with no flicker. Unfortunately, you have to spend about $300 for Cornerstone's ImageAccel3 graphics accelerator to hit this high rate. The 1,600 by 1,200 resolution mode yields only 256 colors, so it's best suited for text documents.

The monitor's extra 2 inches of screen space do come at a premium—$1,195 plus the graphics board. However, if you spend long hours looking at text on your screen, you may want to spend the extra money. Your eyes are worth it. **JULIE POLITO**



Look Sharp: The Cornerstone Color 45/101sf delivers razor-sharp text and no flicker.

PHOTOGRAPHS BY ARNOLD TIOSEJO

FILEBOX

Cornerstone Color 45/101sf

★★★★

Verdict: A sharper, bigger picture—for a price.

Pros: Noticeably larger display than a 17-inch monitor; high resolutions and refresh rates mean sharp, bright text and images.

Cons: The bigger screen comes at a high price; need the optimized graphics card to hit the highest resolutions and refresh rates.

$1,195 est. street price (about $300 for the ImageAccel3)
Cornerstone Imaging
(800) 562-2552
Reader Service No. 633

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

Talk While You Type

Small-office warriors live and die on the phone. But for those of us still tackling the world via a regular handset, the end of the day leaves us with little more than a sore ear and a kinked neck. A better solution? Polycom's $299 SoundPoint PC.

The SoundPoint PC is a small, sleek, full-duplex speakerphone that jacks into your PC's audio card for crystal-clear, hands-free video plus audio conferencing and Internet telephony. However, Net-based telephony is far from crystal clear, and for the same price most businesses are better off with Polycom's analog-only product, the SoundPoint.

We tested a pair of SoundPoint PC units across our LAN using Microsoft NetMeeting 2.0. We plugged both units into full-duplex sound cards, and the audio results were impressive. Instead of that hollow, distant sound you get with most speakerphones, the SoundPoint PC sounded like what you get on a handset.



Now Hear This: Stop suffering through static-filled conference calls and get Polycom's SoundPoint PC.

However, you must have a full-duplex sound card to get all the benefits of the SoundPoint PC. And thanks to thin bandwidth and spotty audio, the quality of voice transmissions over the Net is far below the SoundPoint PC's potential. Also, the SoundPoint PC works *only* with your sound card and doesn't directly support your analog phone line.

Unless your small business is setting up a Net-based audio or videoconferencing system, the better bet is Polycom's non-PC SoundPoint. Unfortunately, Polycom *doesn't* offer a hybrid of both. That, of course, would leave us plenty to talk about. **RICH SCHWERIN**

FILEBOX

SoundPoint PC

★★★

Verdict: Hands-free Internet conferencing for your small office.

Pros: Excellent full-duplex audio quality; easy setup.

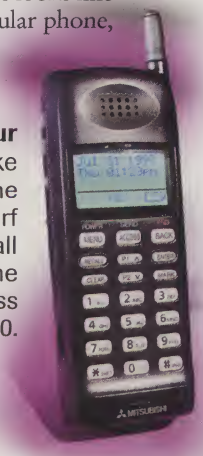
Cons: A bit pricey; connects only to PC.

$299 est. street price
Polycom
(800) 765-9266, (408) 526-9000
Reader Service No. 634

Mitsubishi Wireless Communications MobileAccess 120

Pocket-size Net Access

If you want to surf the Net on your cell phone, check out the Mitsubishi MobileAccess 120. At first glance, the $299 MobileAccess looks like a typical cellular phone, but it has a cool twist: a built-in Advanced Mobile Phone Service analog/digital fax modem. The modem, along with a built-in copy of a browser based on the handheld device markup language (HDML), can send and receive HDML-compliant data from the Internet, including stock quotes, news, sports and weather updates, and even information from your intranet or corporate network.



Net in Your Pocket: Make cellular phone calls and surf Internet data all in one with the MobileAccess 120.

We put the MobileAccess through a rigorous usability review, testing both voice and data throughout Northern California. While voice quality was excellent, Cellular Digital Packet Data (CDPD) wasn't always accessible, and service was often slow. And typing out messages on the keypad is a major chore.

Before you shell out $299 for the phone (plus at least $30 a month for data service and even more for voice service) keep in mind that as of this review, CDPD and HDML remain limited in scope and performance. That said, the MobileAccess 120 is a great way for mobile professionals to stay connected via voice, e-mail, pager, and Internet. It's the same size as a cell phone but a lot more useful, and it provides a glimpse of phones of the future. **RICH SCHWERIN**

FILEBOX

MobileAccess 120

★★★★

Verdict: The ease of the Net and the convenience of a cell phone—but with provisos.

Pros: Light; access to e-mail, two-way paging, faxing, and some Internet data.

Cons: Relatively expensive; limited Web access.

Competition: AT&T Wireless Services' PocketNet Phone is nearly identical, so choose the less expensive service offer.

$299 est. street price
Mitsubishi Wireless Communications, Personal Mobile Communications Division
(408) 730-5900
Reader Service No. 635

PHOTOGRAPHS BY ARNOLD TIOSEJO

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*



These days, your tools have a big effect on the designs you can create. Or can't create. That's why the Wacom graphics tablet now *comes with PenTools*,™ an exclusive set of Photoshop® plug-ins that shatter conventional limitations and extend your design reach in every direction.

PenTools™ Cool Pen-Sensitive Photoshop Plug-ins!

Wacom is the choice of pros because it lets you draw, brush, edit and retouch with more precision and control than you've ever experienced before. And now, when you click into PenTools, you'll find additional capabilities that no other graphics tablet can match.

Designed specifically to work on a Wacom, PenTools are pressure-sensitive and tilt-sensitive. You can spray on paint naturally with the Virtual Airbrush,™ create wild distortions with Super Putty,™ emboss and deboss with the 3-D Chisel, and more. PenTools give you a whole variety of potent techniques you can apply with a pen stroke. They're a $129 value included only with a Wacom, absolutely free. And there's nothing else out there like them.

Think you can't pull off that new design idea? Hey, you just haven't tried PenTools yet.

For more information or the dealer nearest you, call Wacom at **1-800-922-2585.** Or visit our web site, **http://www.wacom.com.**



Macworld 1996 World Class Award Winner · Windows Stellar October 1996 · MacUser Rated 5 5 5 5 1/2 · Editors' Choice Award · Computer Life Recommended 1997 · Mac OS · Designed for Microsoft Windows 95

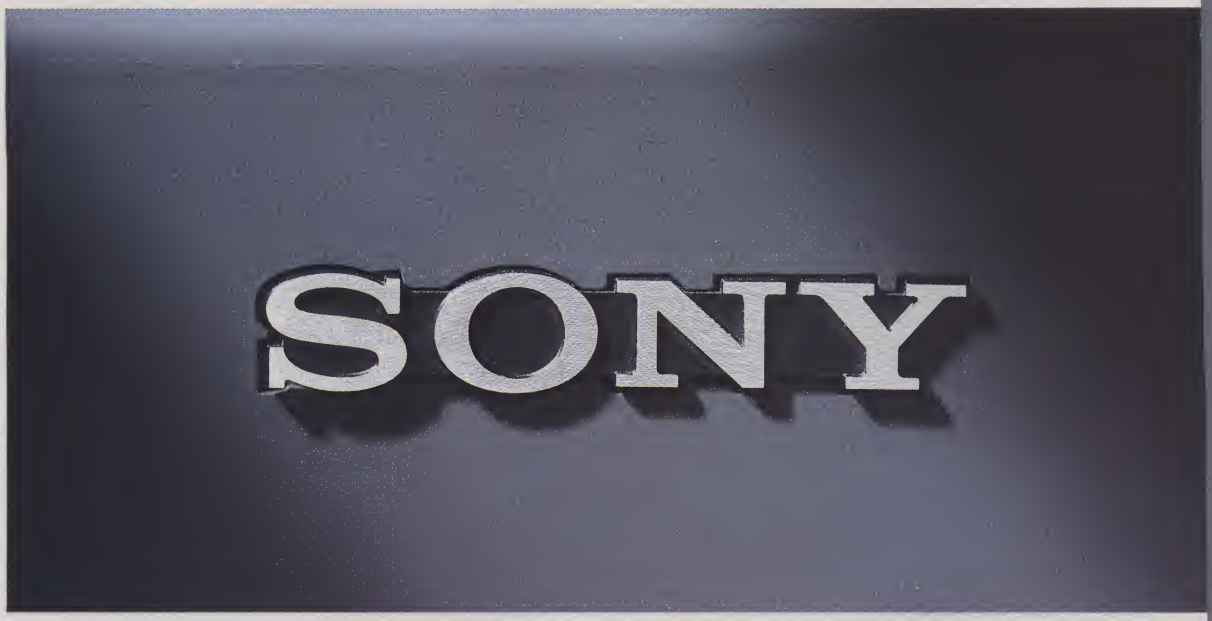
WACOM

©1997 Wacom Technology Corp. 501 SE Columbia Shores Blvd. #300 Vancouver, WA 98661. Wacom is a registered trademark and PenTools, Virtual Airbrush and Super Putty are trademarks of Wacom Co., Ltd. All rights reserved. All other trademarks are property of their respective companies.

Circle 203 on reader service card.

1 800 472 7669 ext LCD

The most important feature to look for when buying an LCD projector...





At Sony, we've taken the quality and reliability for which the Sony name is known and incorporated those features in our LCD projectors. Whether you need SVGA, XGA, SXGA or VGA, Sony's LCD projectors deliver five big advantages that will make a vivid difference in your next presentation: 1) extra bright images; 2) extremely consistent, uniform images; 3) durable yet lightweight construction; 4) ease of set up; and 5) reliability in the form of a three year parts and labor warranty on every model*. Turn on our VPL-S500U SVGA model or any of five models in our family of LCD projectors and make your presentation with confidence. Call 1-800-472-7669 extension LCD, or visit us at our website at http://www.sony.com/professional.

Call now and receive a FREE CD ROM on "The Interactive Guide to Effective Presentations"

SONY

©1997 Sony Electronics Inc. Reproduction in whole or in part without written permission is prohibited. All rights reserved. Sony is a trademark of Sony. Simulated picture reception. Please allow 3-4 weeks for CD Rom delivery. *90 day lamp warranty applies. (See actual warranty for details.)

3 YEAR WARRANTY • PARTS AND LABOR •



VPL-W400Q Widescreen Video LCD Projector | VPL-V800Q VGA System LCD Projector | VPL-V500Q VGA Portable LCD Projector | VPL-S800U SVGA System LCD Projector | VPL-S500U SVGA Portable LCD Projector

Intuit BankNow Internet Edition vs. Security First Network Bank

Easy Money Meets the Web

SNEAK PREVIEW

Even if you can't seem to add two numbers together, you don't have to descend into checkbook chaos. Online banking saves you hours of standing in lines, punching a calculator, and juggling paper records. And an increasing number of banks now offer custom Web sites that let you pay your bills, download your bank and credit card statements, and get on with your life.

In fact, the cyberlobbies of banks using Intuit BankNow Internet Edition and Security First Network Bank (SFNB) are among the easiest to get around. Both BankNow and SFNB stand out for the free access they provide to Internet-based wizards and financial calculators. Even better, they offer research that helps you with other intermittent financial chores like refinancing a mortgage, choosing the best credit card, or analyzing your investments.

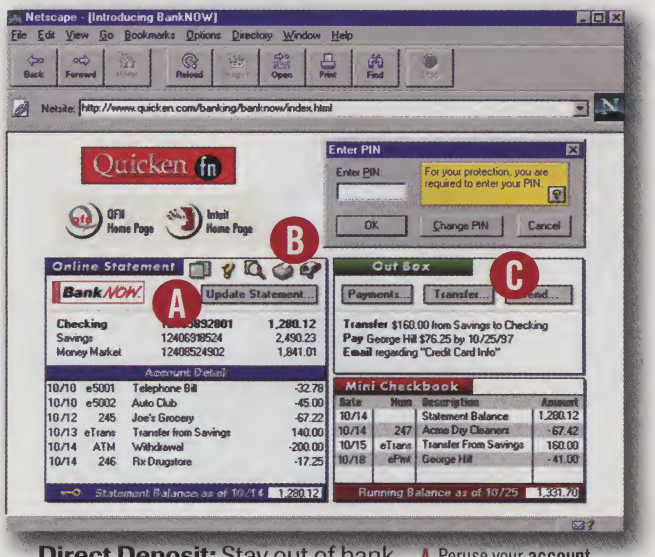
Armchair Banking BankNow, which started out on America Online last year, now gives you access to participating banks through any ISP. This is hands-down the easiest banking software to use. It displays your list of accounts, cleared checks, and an out-box full of bill payments, e-mail, and account transfers.

SFNB's Web site lets you maintain an investment portfolio with custom portfolio tracking, market news, and advice from leading market analysts. Plus you get an update of your portfolio via e-mail at the close of each business day. Early next year SFNB will add a discount stock brokerage and access to life, auto, and home insurance brokers online.

Naturally, both BankNow and SFNB do all the math for you and automatically keep an online record of your checks.

Great Gateways Intuit's newly revitalized Quicken Financial Network (QFN), which you can access as a BankNow customer, includes gateways to insurance providers. That, in addition to the investment advice, tax planning, and retirement planning, has long made QFN one of the best financial sites on the Web.

The downside to Internet banking? Well, how fast is your modem? In any case, the move could save you money in bank charges like teller-visit limits. Either way, it's nice to know that you will never have to spend your lunch hour in a bank line again. **MIKE HOGAN**



Direct Deposit: Stay out of bank lines—do your banking online. Both Intuit BankNow (above) and Security First Network Bank let you check balances, pay bills, and transfer funds from home.

A. Peruse your **account summary** and cleared transactions.

B. **Simple icons** conduct the banking basics.

C. The Out Box holds **e-mail, bill payments,** and **account transfers.**



Top Stock Picks: Security First Network Bank not only lets you pay bills and check your account balance online, it also offers a capable portfolio tracker.

FILEBOX

BankNow Internet Edition

★★★★

Verdict: The easiest way to bank online, hands-down.

Pros: All banking chores are a breeze; plenty of helpful financial information.

Cons: No smooth path from personal financial managers.

Competition: While SFNB, the Bank of America Web site, Microsoft Investor, and others provide similar banking services, none can match the breadth and depth of Intuit's offering.

Free software; monthly service charges vary among BankNow banks, starting at $4 a month
Intuit
(800) 446-8848, (415) 944-6000
www.quicken.com
Reader Service No. 638

Security First Network Bank

★★★

Verdict: Far from innovative, but still better than standing in a teller line.

Pros: One-stop shop for financial products beyond banking and bill paying; doesn't cost a penny if you maintain a $1,000 balance or use direct deposit.

Cons: Multiscreen interface requires too many mouse clicks.

Competition: BankNow, the Bank of America Web site, and Microsoft Investor are primary competitors, and while on par with the latter two, SFNB doesn't match BankNow.

Free online banking and 20 bill payments a month with a $1,000 balance or direct deposit
Security First Network Bank
(800) 736-2321, (404) 812-6700
www.sfnb.com
Reader Service No. 639

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

Computer Graphics, Naturally

SNEAK PREVIEW

The last update to MetaCreations (formerly Fractal Design) Painter seemed almost restrained. Aside from a few new tools, there were relatively few flashes of creative flair. Apparently the artists at MetaCreations were saving up for Painter 5.

This mind-bending upgrade is indeed a cornucopia of cool stuff. If you're an artist or a graphic designer, there's a lot here to love. If you're just a casual digital artist, you'll have some fun exploring but this may be more than you'll ever need.

Grab Bag Not that Painter 5 is any harder to use than before—quite the opposite in some ways. But keep in mind the previous version was no walk in the park. The application's painting power comes from tons of toolboxes and filters, which definitely take new users a while to master.

Usability improvements in Painter 5 include the ability to grab tools from a palette and drag them to the desktop to form a custom palette. And the new Output Preview feature, coupled with Painter's new color-management system by Kodak, lets you more easily—and more accurately—see how your creations will print on various devices.

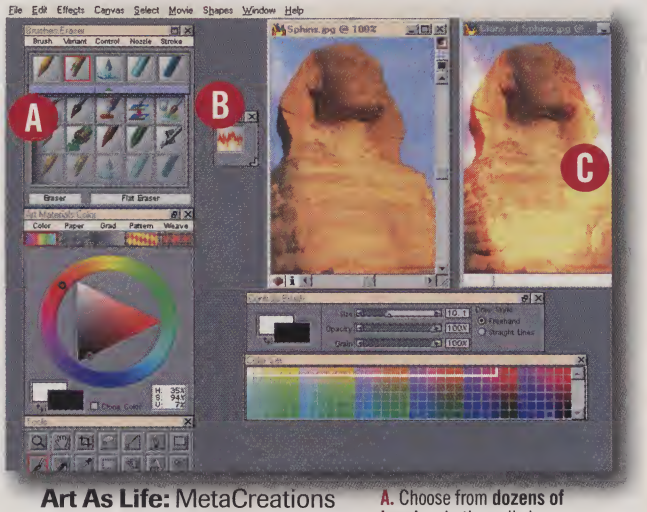
Painter 5 is also much more complete than before, thanks to dozens of new brushes and effects. The effects are at the heart of Painter, whose brushes have the look and feel of traditional art tools and methods. Some of the new plug-in brushes are better for editing images than creating them; they'll save you a lot of time if you're not starting from scratch. New photo brushes remove scratches or clean up scans. Gooey brushes transform images into blobs that you can manipulate like Silly Putty. Layer brushes let you paint on transparent layers.

Floating Effects If the new brushes don't fire the imagination, the new Dynamic Plug-in Floater tools will. These are a cross between static layers and image-processing filters. Floaters automatically apply effects like burning or tearing, and you can move, change, or remove them without affecting the original images. The Liquid Metal Floater, for instance, lets you add a fluid metallic paint effect similar to mercury. Several floaters are included, and you can create your own.

Image Hose fans will find hours of fun with new 3-D spraying effects that let you wrap Image Hose nozzles around 3-D objects. And new effects like Pop-Art and Camera Blur will no doubt keep us awash in automated avant-garde artwork for years to come. Painter 5 supports GIF animations now, too, for creating livelier, funkier Web pages.

Beneath all these fancy new tricks, Painter 5 remains the best program there is for creating images that look as if they've been painted, penciled, penned, chalked, charcoaled, or crayoned. But Painter has now moved *well beyond* adroit mimicry and into the strengths of the computer medium. If you work strictly in graphics production, you'll want to stick with a more traditional program like Adobe Illustrator or Macromedia Freehand. But if you do anything more than doodle, you'll want to put Painter 5 on your palette.

CHRIS O'MALLEY

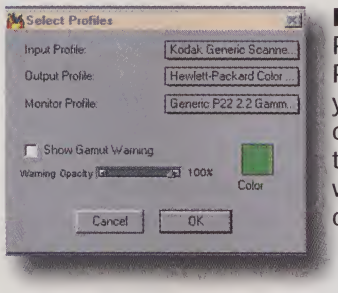


Art As Life: MetaCreations Painter 5 remains the premier digital art tool for adding real-life touches to computer graphics. Its brushes and effects let you create truly unique images.

A. Choose from **dozens of brushes** in the pull-down menu.

B. Grab brushes off the main toolbar to create **custom palettes.**

C. New **Dynamic Floaters** let you add movable layers of effects such as fire.



Printer-Perfect: Painter 5's Output Preview system lets you see how your creations will look in the real world, whether they'll be onscreen or printed.

FILEBOX

Painter 5

★★★★½

Verdict: Just like having your own art supply store.

Pros: A dizzying array of new effects and plug-ins; improved image editing; more flexible interface with easily customized toolbars.

Cons: Not the best choice for simple painting or image editing; takes a while to master; expensive.

Competition: Traditional graphics programs like Adobe Illustrator and Adobe Photoshop are still tops for mainstream design and production. But if you want to be on the cutting edge of computer art, nothing matches Painter 5.

System Requirements: Windows 95 or Windows NT 4.0, Pentium CPU, 16MB of RAM (32MB for NT), 32MB of hard disk space, CD-ROM drive, high-resolution graphics (24-bit color) recommended.

$299 est. street price,
$99 for upgrade
MetaCreations Corp.
(800) 846-0111, (408) 430-4100
Reader Service No. 640

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

We just gave downsizing a good image.

Introducing the world's smallest LCD digital camera.

You never know when a good picture will present itself. With the new Panasonic PalmCam™ Digital Camera, you'll always be ready. There's no film; its digital pictures transfer right into your computer. And since you can take it anywhere, you'll always get the picture.





And you can't find a smaller digital camcorder with a bigger LCD screen.

Panasonic puts spectacular digital quality video and sound right in the palm of your hand. Plus, with the digital Palmcorder® you'll also be ready for the future of digital imaging as video and computers converge. And, oh yeah, it works with your TV too.

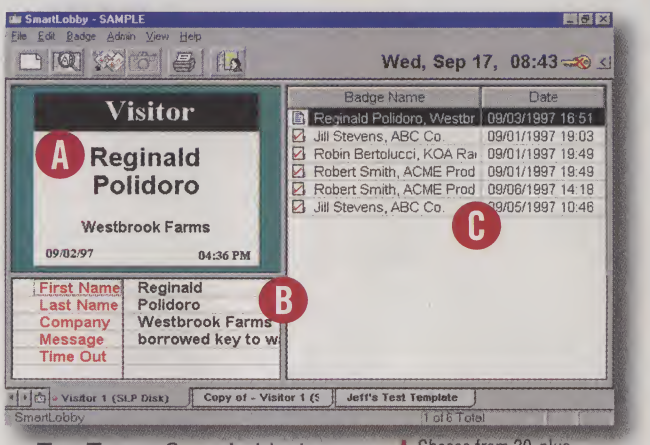
For a fax with more information call 1-888-329-4872.
www.panasonic.com/PCEC
Pictures simulated

Panasonic®
just slightly ahead of our time®

Step Up Your Office Security

There's no need to go Fort Knox with your office security. But letting visitors freely come and go is an invitation to disaster. Even the traditional sign-in book, although easy to use, is a security mishap waiting to happen. Your guests can see who has already signed in—a potentially disastrous situation during business negotiations. The solution? Seiko Instruments USA's SmartLobby, an electronic sign-in book that prints visitor badges and logs your guests' check-in and checkout times, as well as any equipment they came with.

Your receptionist, equipped with a Windows PC, SmartLobby, and a Seiko label printer, can quickly create professional-looking badges that display the visitor's name and company, as well as the check-in time and date. And since SmartLobby maintains a database of all visitors, you can print daily guest lists that show who visited, how long they stayed, and whom they saw. Add a digital camera to the mix, and SmartLobby lets you take a guest's photo and print it directly on his or her badge—a fine security feature.

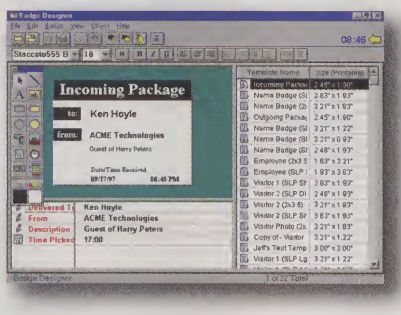


Tag Team: SmartLobby is a high-tech alternative to the old-fashioned sign-in book. When guests arrive at your office's front lobby, your security person uses SmartLobby to create badges and track their in and out times.

A. Choose from 20-plus **badge templates**—or design your own.

B. **Enter visitor information,** then click on the Print icon.

C. SmartLobby **automatically enters names** into its database.



Do It Yourself: SmartLobby's Badge Designer provides an extensive collection of drawing and text tools to help you build custom badges.

Who's Who One of SmartLobby's best attributes is its uncluttered interface, which we found very easy to use. Even if your lobby staff has never used a PC before, they'll be printing badges after only a few minutes. To print a badge, simply enter data in three fields—First Name, Last Name, and Company—and hit the print icon.

SmartLobby automatically prints the current date and time on the badge. When the visitor leaves, the lobby attendant chooses Checkout Badge from the Badge menu; the current time then appears in the Time Out field in the Guest database. There's even a Message field where the receptionist can type reminders and messages that won't appear on the badge.

The program comes with about 20 badge templates, which are handy if you'd rather not use SmartLobby's Badge Designer application. You can modify a template by adding your company logo or a color background. For big print jobs, you can output multiple badges to any laser or ink-jet printer.

Safe and Sound What about the program's own security? Naturally you don't want your lobby personnel changing badge templates and the company logo at will. That's why SmartLobby offers optional password protection for most administrative features. To lock out important managerial tools, such as the ability to create daily visitor reports, simply click on the Key icon in the upper-right corner of the screen.

SmartLobby isn't perfect, however. During our tests on two stand-alone PCs, SmartLobby's autodetect feature failed to locate our Seiko Smart Label Printer and made the setup program crash. We had to enter the printer information manually to continue. And while SmartLobby supposedly can import files in the comma-delimited (CSV) and ASCII text formats, it failed to import our Lotus Organizer (CSV) database of contacts.

You can buy SmartLobby alone for $300, or get it with Seiko's $500 Smart Label Printer Pro. To use SmartLobby effectively, you need the software *and* the printer. Despite its minor shortcomings, SmartLobby is an inexpensive way to keep tabs on all your office's visitors. JEFF BERTOLUCCI

FILEBOX

SmartLobby

★★★★

Verdict: A simple yet effective way to keep visitors in check and your company's privacy safe and secure.

Pros: Maintains visitor databases; works with digital cameras; lets you use badge templates or design your own; easy-to-use interface.

Cons: Some installation and file-conversion glitches; requires Seiko label printer for optimum performance.

Competition: Sophisticated (and pricey) security systems might offer better protection against snoops and crooks, but SmartLobby's low price, Windows compatibility, and ease of use will appeal to cost-conscious corporations.

System Requirements: Windows 3.1, 95, or NT 4.0; 386 CPU; 4MB of RAM; 5MB of hard disk space; Seiko Smart Label Printer Pro recommended.

$300 est. street price; included with $500 Seiko Smart Label Printer Pro
Seiko Instruments USA
(800) 688-0817
Reader Service No. 641

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

QUARTERDECK



HOW FORTUNATE. PROCOMM PLUS®32 GIVES YOU RELIABLE, EASY WAYS TO SEND AND RECEIVE INFORMATION SO YOU CAN GET THROUGH THE DAY WITHOUT A HITCH. IT SUPPORTS 36 TERMINAL EMULATIONS, 11 FILE TRANSFER PROTOCOLS, AS WELL AS REMOTE CONTROL, FAXING AND ACCESS TO THE INTERNET WITH TELNET, FTP AND A WEB BROWSER. AND, WITH ADVANCED COMMUNICATIONS SCRIPTING CAPABILITIES, YOU'VE GOT FULL TASK AUTOMATION TO BOOT. SO EVERYONE'S HAPPY, YOU LOOK GOOD, AND WHO KNOWS? MAYBE THE ONE ABOUT FAME AND PROSPERITY WILL COME TRUE TOO. FOR MORE INFORMATION ABOUT HOW PROCOMM PLUS 32 CAN STREAMLINE YOUR COMMUNICATIONS, VISIT OUR WEB SITE AT WWW.QUARTERDECK.COM OR CALL 1-800-282-0866 AND MENTION CODE #01726.

PROCOMM PLUS 32
FOR WINDOWS NT/95

© 1997 Quarterdeck Corporation. All rights reserved. All brands and product names are trademarks of their respective holders.

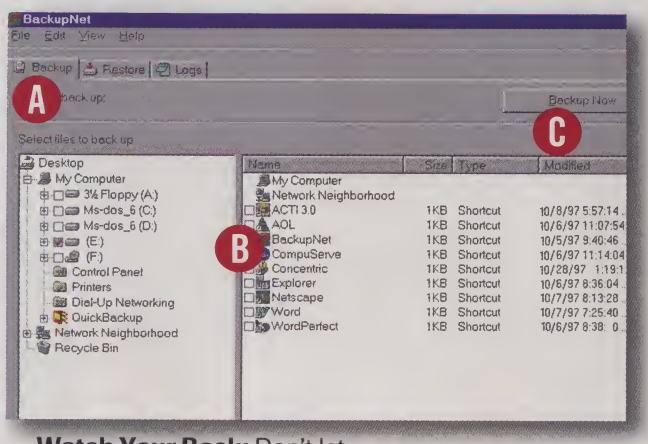
Circle 354 on reader service card.

One-Button Internet Backup

SNEAK PREVIEW

You don't know what you've got until it's gone. That's especially true when your hard drive goes up in smoke. Save time and headaches by backing up your data via the Internet with Atrieva Corporation's Atrieva 1.0, Hot Wire Data Security's BackupNet 1.5, or McAfee Associates' QuickBackup 2.05 and Personal Vault. When you use these services, your data remains offsite, safe from office mishaps. Plus, you can access your data from almost anywhere while traveling.

There are two types of Internet backup products: generic utilities that save data to FTP sites via any Internet service, and free client software that works only with a specific Internet backup service. We reviewed variations on both of these and no clear winner emerged, but one of these solutions may save your data when you need it most.

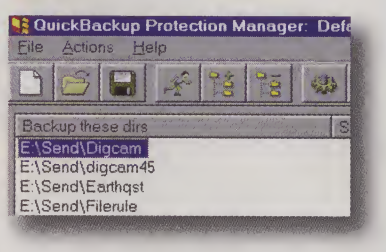


Watch Your Back: Don't let a dead hard drive take your business down with it. Safeguard your data with a backup from Atrieva 1.0, BackupNet 1.5 (above), or QuickBackup 2.05.

A. BackupNet offers an easy **tabbed interface.**

B. Select specific files for backup using this **Explorer-like view.**

C. Ready to back up? Simply **click on one button** and your data is on its way.



Safe and Sound: With McAfee Associates QuickBackup, managing folders and drives for backup is easy.

Lock It Up Atrieva is client software that supports only the Atrieva backup service, while QuickBackup saves data to McAfee's Personal Vault as well as to any FTP site. BackupNet is a client-server solution that lets you build complete backup systems for internal or commercial use.

All of the products feature Windows Explorer–style interfaces that display outlines of your drives, folders, and files. For backing up, both Atrieva and BackupNet let you select drives, folders, or files by simply clicking on boxes next to them. QuickBackup, on the other hand, lets you select only drives and folders; then you have to methodically designate file types (DOC, PCX, and so on). All three programs offer encryption to keep data safe.

Atrieva is the easiest to use. If you like, you can follow a wizard through the backup process. Atrieva does a first-rate job of storing data. However, it restores files only to new folders, not their original ones—an unusual approach.

BackupNet's client software offers a simple and intuitive interface to select and mark files for backup, but doesn't let you save file sets. It can, however, perform incremental backups that send only the changes in a file, greatly shortening transmission times. In our testing, all three packages sent our original files in approximately the same amount of time. But BackupNet updated the files in about a fifth of the time the others required.

All three programs offer scheduling capabilities. Atrieva and BackupNet let you schedule backups only once a day, while QuickBackup will save your data hourly.

On Schedule In all, Atrieva and QuickBackup offer strong and comparable solutions. Atrieva is slightly easier to use, but QuickBackup can back up data to any drive as well as to the McAfee service. BackupNet offers the only solution for creating your own backup system, a perfect approach if your office network spans different sites. Bottom line: If your data turns to dust, any of these products will be a major lifesaver. WAYNE KAWAMOTO

FILEBOX

Atrieva 1.0

★★★★

Verdict: First-rate Internet backup service that offers easy-to-use client software.

Pros: Easy to learn since it works just like Windows 95.

Cons: Can only back up to a certain directory.

Free client software, price per month for 25MB of space not yet set (30-day free trial)
Atrieva Corp.
(888) 287-4382
Reader Service No. 642

BackupNet 1.5

★★★½

Verdict: Excellent solution for building your own intranet-based backup system.

Pros: Client is easy to use; incremental updates make for fast backups.

Cons: Can't save file sets for easy backup automation.

$30 for client, $495 for server, est. street prices; free for BackupNet Lite (can't perform incremental backups)
Hot Wire Data Security
(888) 468-9473
(610) 435-7700
Reader Service No. 643

QuickBackup 2.05

★★★★

Verdict: Good solution for performing backups to any Internet server.

Pros: Wizard makes for easy setup; can back up every hour and also when a PC is idle; subscription rates are slightly less than those of Atrieva.

Cons: Can designate only folders and file types; restoring files is initially confusing.

$49 est. street price, $10 per month for 30MB of space in Personal Vault
McAfee Associates
(800) 332-9966 ext. 1218
(408) 988-3832
Reader Service No. 644

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

QUARTERDECK®



SQUEEZE EVERY LAST DROP OF MEMORY OUT OF YOUR SYSTEM FOR ITS SPEEDIEST, MOST POWERFUL PERFORMANCE. QEMM 97 WILL GET YOUR RAM ALL IN A ROW SO YOU CAN WORK FASTER, PLAY FASTER, AND OVERALL FEEL JUST A LITTLE BIT, WELL, JUICED. TO LOOK INTO HOW QEMM 97 SOFTWARE CAN RUN YOUR PROGRAMS UP TO 30 PERCENT FASTER, VISIT US AT WWW.QUARTERDECK.COM, OR CALL 800-683-6696 AND MENTION CODE #01008. QEMM 97 IS AVAILABLE AT THESE FINE RETAILERS: COMPUSA, COMPUTER CITY, BEST BUY, STAPLES, OFFICE DEPOT, OFFICE MAX, EGGHEAD COMPUTER, ELECTRONICS BOUTIQUE, FRY'S ELECTRONICS, AND MICRO CENTER.

©1997 Quarterdeck Corporation. All rights reserved. Quarterdeck and QEMM are registered trademarks and the Quarterdeck "Q" symbol is a trademark of Quarterdeck Corporation or its subsidiaries. All other products are trademarks or registered trademarks of their respective holders.

Circle 355 on reader service card.

Visual Basic Without Tears

It's no secret that Visual Basic makes it easy to develop software quickly. But for every task that VB automates, there are a dozen more tasks that are mind-numbingly tedious. Fortunately, two third-party products can help: Sheridan Software Systems' VBAssist 5.0 and Advantageware's VB Advantage 1.0 are add-ins that automate repetitive VB tasks.

Both products include code commenters, tools that help you align visual controls, and code libraries that let you reuse frequently used code. But the two products work their magic in very different ways.

Shot in the Arm VBAssist contains several unique features like one that lets you automatically save code at regular intervals and a Resource Assistant that lets you create compiled resource files (without using Microsoft's command-line resource compiler). VBAssist also sports a Clipboard History Assistant that takes over VB's copy-and-paste features, letting you copy and store multiple code snippets for later use. A Data Binding Assistant makes it easy to quickly build interfaces that connect to databases—a huge time-saver for data-rich applications.

While it contains dozens of other snazzy tools, VBAssist's strength is its interface. And since the whole purpose of these tools is to make developers' lives easier, this is a key point. Most of VBAssist's tools are visual, letting you click or click and drag to specify what you want, rather than mindlessly typing out the same commands again and again. This is in contrast to VB Advantage, which performs most tasks using less intuitive dialog boxes.

VB Advantage is not only an add-in, it's also a development environment for building your own add-ins for Visual Basic. It offers a wealth of tools for tasks like code formatting and streamlining file events, thus making the development process easier and faster. But since most Visual Basic programmers have their own way of hacking out code, VB Advantage has its own object model and macro language, as well as its own minidevelopment environment that lets you create your own macros. The product also comes with a large number of out-of-the-box macros, with more available through Advantageware's Web site.

Do It Yourself In addition to a rich array of utilities that help you manage common code-building chores, VB Advantage has a particularly strong set of code parsers. These include a tool that checks for dead code and untyped variables. The parser tools help developers eliminate inefficient code in VB projects. VBAssist lacks code-parsing and cross-referencing tools entirely.

Although Sheridan beat Advantageware to market with a Visual Basic 5.0–compatible version of its product, a Visual Basic 5.0 version of VB Advantage should be available by the time you read this.

If you work a lot with databases or prefer to generate most of your VB code by hand, VBAssist is for you. But if you tend to code the same way time after time, VB Advantage's macro power will save you hours in automation. True VB jockeys may want to consider getting both packages to really get the code smoking. Either one will definitely pump up your programming muscle. **JEFFREY P. MCMANUS**

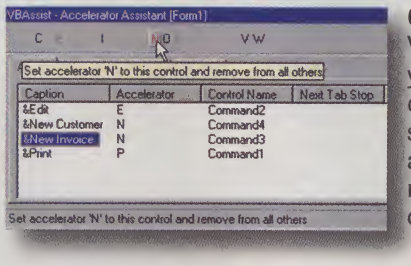


Code Crackers: Visual Basic veterans, rejoice. Two new VB add-ins, Advantageware VB Advantage 1.0 (above) and Sheridan VBAssist 5.0, take the make-work out of coding, offering tools that let you create applications faster and better.

A. Build your own **custom toolbar** with all your favorite tricks.

B. The parser engine **analyzes and streamlines your code.**

C. Strip out unneeded code to improve application stability and performance.



Cheat Sheet: VBAssist helps you format your code, set up easy spot markers, and reduce repeated coding commands.

FILEBOX

VB Advantage 1.0

★★★★

Verdict: Brilliant automation of any repetitive task you find in Visual Basic development.

Pros: Powerful macro tools; powerful code parser helps eliminate deadweight.

Cons: Takes time to master its macro language; slim tutorial help; clunky interface.

$189, $49 for upgrade,
est. street prices
Advantageware
(888) 858-0800, (212) 319-1903
Reader Service No. 645

VBAssist 5.0

★★★★

Verdict: A nice speed boost for anyone producing lots of Visual Basic code by hand.

Pros: Excellent integration with Visual Basic 5.0; great coding tricks; strong database integration.

Cons: Not as many speed or debugging tricks as VB Advantage; fewer macro tools.

$179, $79 for upgrade,
est. street prices
Sheridan Software Systems
(800) 823-4732, (516) 753-0985
Reader Service No. 646

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

CIRQUE

Put your finger here.



Now glide it left, then right.

You've just reviewed a night's worth of websites.

(Try doing that with your mouse.)



New Cirque Power Cat™ Touchpad. Feel the power at your fingertip.



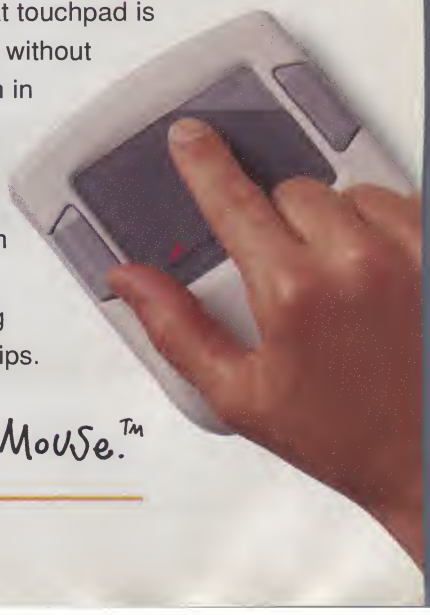
- *Single*, double and right taps
- Drag, draw or highlight beyond the pad's edge
- Tactile feedback
- 2 buttons
- Maintenance-free



All the benefits of an Easy Cat™ plus:

- Easy vertical and horizontal scroll
- One-touch zoom
- Audible feedback
- Programmable buttons and settings

Just touch. And go. Using the new Cirque Power Cat touchpad is that easy. Do everything a mouse can do and more, without moving your hand. Scroll through a document, zoom in and out and surf the Web. The Cirque Power Cat also comes with a stylus (nifty pen-like device) that lets you sign on-screen memos. The Power Cat is faster, easier, smarter and more powerful than any measly mouse could ever be. Its patented GlidePoint Control lets you use your natural pointing motion to put the power of computing at your fingertips.



Cirque Cat. Mightier than the Mouse.™

GLIDEPOINT CONTROL®

©1997 Cirque Corporation. www.cirque.com

Circle 246 on reader service card.

Funky Photo Fixer-Upper

Don't toss out your shoebox of yellowing photos. Flash them up with a new digital photo-editing package—Kai's Photo Soap from MetaCreations.

What Photo Soap does isn't so special; products like Microsoft Picture It and Adobe PhotoDeluxe also smooth wrinkles and remove red-eye. But the way Photo Soap does these things is unique. Instead of clicking around a Windows interface, you enter a funky photo-editing world with five "rooms" dedicated to each step of the process. Go room-by-room, from cropping to color enhancement to fancy frames, or just pop in and out and work on specific tasks.

Every facet of Photo Soap sparkles with MetaCreations' trademark originality. Brushes look and behave like real brushes; erasers are of the gummy pink variety. There are fun tools everywhere, like an icicle-shape sharpening tool.



Bye-bye, Red-eye: Kai's Photo Soap is an entertaining place to clean up those family photos.

At times, though, Photo Soap's interface seems a little too original. If you're used to Windows, you'll be bumping into walls for a while. But you couldn't be lost in a more fun and fascinating place. Once you get your bearings, Photo Soap gives you all the tools you need to touch up your family photos. **JULIE POLITO**

FILEBOX

Kai's Photo Soap

★★★★

Verdict: Who knew touching up photos could be so much fun?

Pros: Beautiful interface; full set of photo-editing tools; MMX-enhanced.

Cons: Unconventional interface can be confusing.

System Requirements: Windows 95 or NT 4.0, Pentium CPU, 16MB of RAM, 20MB of hard disk space, 16-bit video.

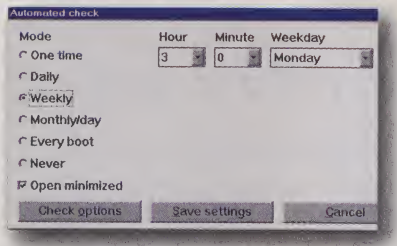
$50 est. street price
MetaCreations Corp.
(800) 472-9025, (805) 566-6200
Reader Service No. 647

IBM AntiVirus 2.5.2

Stamp Out Bugs

Ignoring virus protection is like not using a seat belt: Everything's fine until you crash. IBM's latest version of AntiVirus joins the high ranks of the bug beaters, offering the requisite tools to detect and eradicate computer viruses. It also comes with competent scheduling tools and free signature updates. As a whole, it's a dependable program, but it lacks the refinement of the competition.

Using the intuitive scheduling tools, you can easily set scans to run when it's best for you. The software lacks some conveniences, however—for example, it can't automatically scan whenever the PC isn't being used, as McAfee Associates' VirusScan does.



Virus Vengeance: IBM AntiVirus easily kills viruses, but lacks the polish of its competition.

IBM AntiVirus offers free signature updates. But unlike VirusScan, which automatically updates signature files, IBM AntiVirus makes you download the signature file from IBM's Web site, and then issue a menu command to integrate it into the program.

Right out of the box, IBM AntiVirus supports Windows 95, Windows 3.1, OS/2 2.0, and DOS. Unfortunately, it doesn't safeguard you against NT viruses.

And there are more finely tuned, easier programs out there. You won't go wrong with this one, but try a free download of McAfee VirusScan first.

If your office has multiple operating systems, AntiVirus is a great pick since you don't have to buy different versions of the software. While it could use some polish, it still kills bugs dead. **WAYNE KAWAMOTO**

FILEBOX

AntiVirus 2.5.2

★★★

Verdict: A reliable virus killer for multiple-OS offices.

Pros: Solid virus protection; free signature updates; support for several operating systems.

Cons: Users must manually download and integrate signature updates; no NT-specific virus protection.

System Requirements: Windows 3.1 or 95, IBM OS/2 2.0, or DOS 3.3; 386 CPU; 640K of RAM; 4MB of hard disk space.

$42 est. street price
IBM Corp.
(800) 742-2493, (512) 434-1554
Reader Service No. 648

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

"Dr Solomon's Anti-Virus... once again placed at the top."

— PC Magazine



The experts agree, Dr Solomon's is the best anti-virus software available today. In study after study, test after test, Dr Solomon's scored higher detection rates than any other product.

Now, for a limited time only,* if you own any other anti-virus software you will get $30 back when you purchase Dr Solomon's Anti-Virus software. Look for coupons and specially marked boxes at retail stores everywhere.

*Offer expires Dec 31, 1997

SAVE $30.00

COMPETITIVE REBATE

DR SOLOMON'S

PC WORLD BEST BUY · PCComputing · Checkmark · When it comes to Computers... ELEKTEK · COMPUSA THE COMPUTER SUPERSTORE · J&R COMPUTER WORLD

1-800-960-9113 EXT. 210

www.drsolomon.com

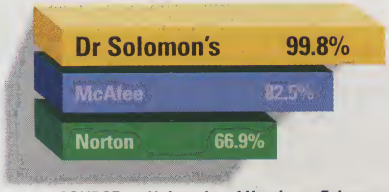
617-273-7400

MACRO VIRUS DETECTION RATE



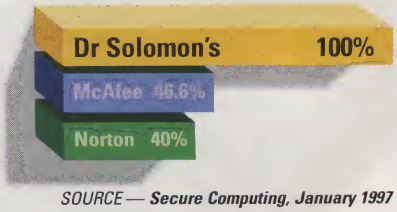
SOURCE — Secure Computing, January 1997

BOOT-SECTOR VIRUSES



SOURCE — University of Hamburg, February 1997

DETECTION OF VIRUSES IN COMPRESSED AND ARCHIVED FILES



SOURCE — Secure Computing, January 1997

Circle 292 on reader service card.

Make CDs Without the Burn

SNEAK PREVIEW

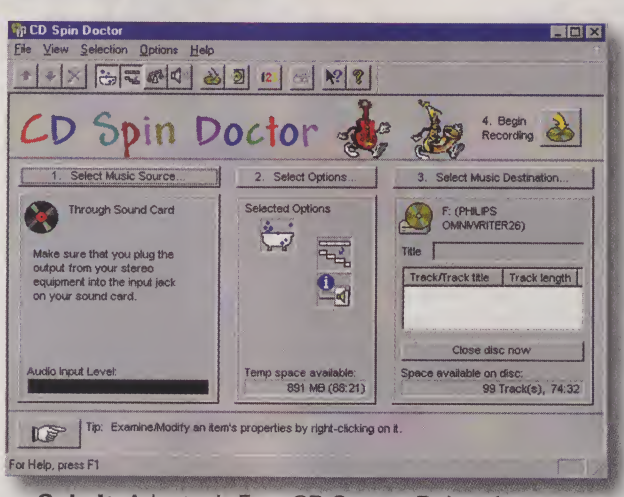
There's no secret to why CD-recordable (CD-R) drives often fail while burning a disc. They burn data in a constant, steady stream. If the stream is interrupted in any way, the drive chokes and the disc is worthless. Adaptec's Easy CD Creator Deluxe gives your drive a fighting chance by adding its own software cache, ensuring that the data stream keeps flowing.

But that's behind the scenes. For you, using Easy CD Creator to burn any type of CD involves just a couple of mouse clicks. The package ships with everything you need to spin a professional CD.

If music CDs are your passion, you're in luck. CD Spin Doctor guides you through recording your old LPs onto disc, while CD Copier Deluxe automates copying audio CDs.

Easy CD Creator Deluxe is quite a deal at $99, although it may be a little overwhelming the first time you use it. The software comes with more than five separate applications, each slightly different from the next.

Even so, if your CD-R drive didn't come with Easy CD Creator Deluxe, go out and get it. The money you save from avoiding bad burns makes it worth the price. JACK LYON



Spin It: Adaptec's Easy CD Creator Deluxe has everything you need to burn professional-quality CDs.

FILEBOX

Easy CD Creator Deluxe

★★★★

Verdict: No more crossed fingers while you burn your CDs.

Pros: Built-in software cache means fewer burning errors; special tools for building audio, video, or picture CDs; good price.

Cons: Unlike Adaptec's DirectCD, doesn't integrate into Windows 95; several similar applications to wade through.

$99 est. street price
Adaptec
(800) 442-7274, (408) 945-8600
Reader Service No. 649

Ephyx Technologies V-Active 1.0

Bring Your Video to Life

We've long heard about how cool interactive video will be, and we've been waiting . . . and waiting. Ephyx Technologies' V-Active 1.0 is a first step in the right direction. It lets you create devices similar to hyperlinks on a Web page, which are all in video. Click on an object in the video window and it starts an action like playing another video clip or launching a graphic.

It's a snap to turn any element in a video into an interactive button, even if the object is panning across the screen. V-Active's motion tracking does all the work. Just outline an element and V-Active turns it into a hot button and follows its movements.

Buttons can launch graphics, sounds, text, URLs, and other videos. The second video can play simultaneously with the first and even synchronize to it.

While not a full authoring tool, V-Active works directly with Macromedia Director and Microsoft Visual Basic, and runs within Netscape Navigator or Microsoft Internet Explorer as a plug-in or an ActiveX component. A special version works with Progressive Networks RealVideo. It's also possible to create presentations using just the V-Active player.

The price may be a little steep for the casual video spinner, and making anyone download the over-4MB runtime player is asking a bit much. However, multimedia developers should give V-Active a serious look. GEOFFREY WILLIAMS



You Direct: V-Active finally brings interactive video to life with simple authoring tools.

FILEBOX

V-Active 1.0

★★★★

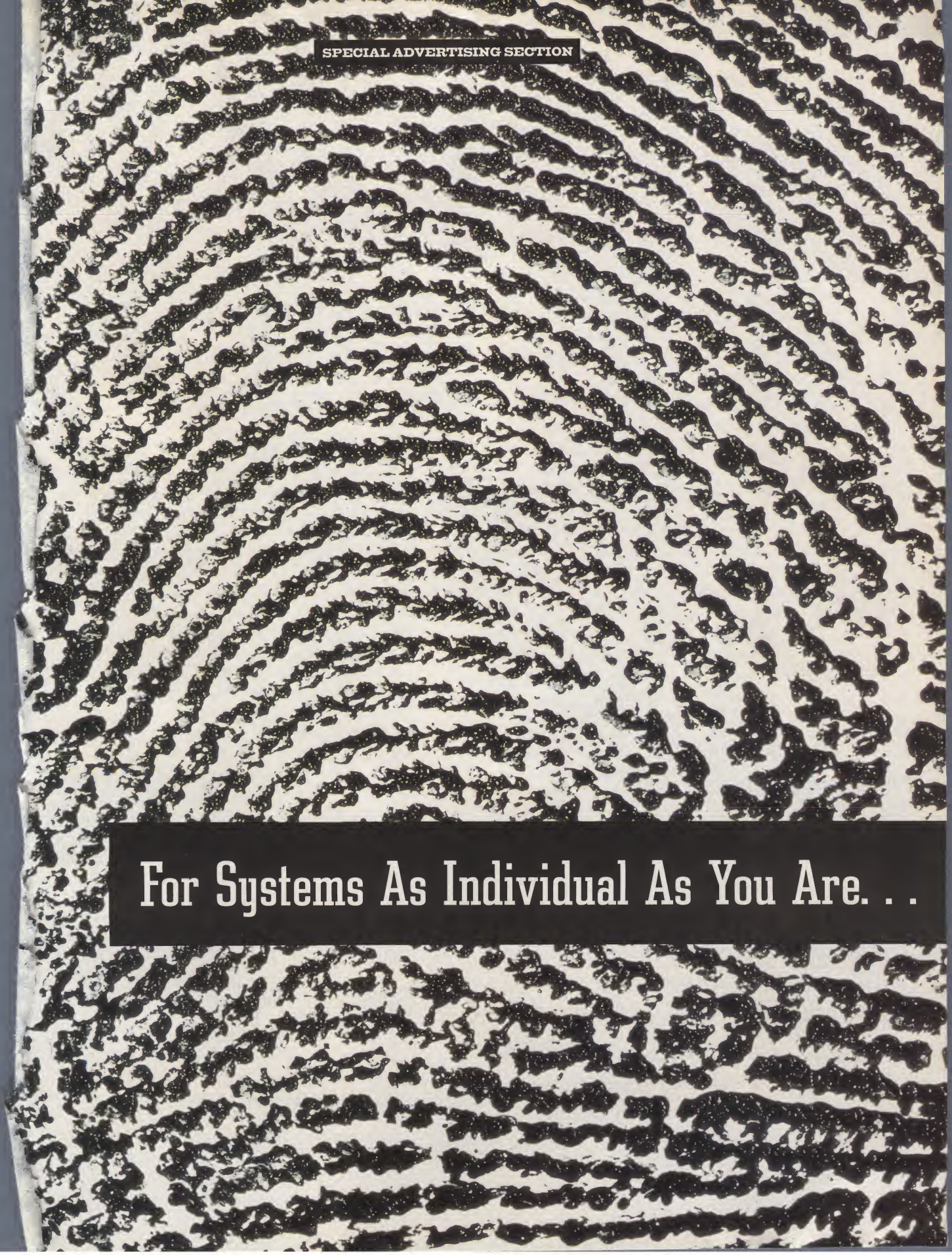
Verdict: The mythical interactive Web video idea finally becomes a reality—assuming visitors to your site download the large plug-in.

Pros: Easy to create interactive videos; supports AVI, MOV, and MPEG-1; works with several existing plug-ins including Macromedia Shockwave.

Cons: No support for MIDI playback; runtime version is a big download; high price.

$695 est. street price
Ephyx Technologies
(888) 463-7499
(415) 439-8380
Reader Service No. 650

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*



For Systems As Individual As You Are. . .

Gateway

You, too, can maximize the value of your corporate PCs — right now and for a long time to come — with Gateway's mix of product excellence, ability-to-customize and award-winning support.

While hardware and software costs have been falling for years, the total cost of owning a PC has been skyrocketing in organizations all over the world. Estimates of the actual cost of PC ownership vary widely, depending on who's talking and what's being measured; generally they range between $12,000 and $60,000 per machine over a five-year period.

Not surprisingly, pretty much everyone agrees the cost of PC ownership is too high. Clearly, something has to be done. But beware. If you rely on the *cost* of ownership as your exclusive purchasing criterion, you're likely to find that your end-users' needs aren't truly satisfied and that you're missing some of the basic benefits you really want from today's technology. What's more, you won't make nearly the dent in your PC costs that you hoped for.

That's because what your organization gets from its PCs involves more than just a cost burden. You get value, too, which is why we all long ago opted for PCs over typewriters. The challenge that's got everyone talking these days — *your* challenge — is to strike the right balance between PC cost and PC value.

With its focus on Value of Ownership, Gateway 2000, a global leader in directly marketing PCs to corporations, can help you maximize the benefits PCs bring to your organization while helping you reduce your PC costs. How? By identifying and delivering the most appropriate mix of costs and benefits that your organization derives from its PCs. This means:

Quality. A PC is only as strong as its weakest component. You'll sleep better knowing your PC vendor rigorously quality-tests all PC parts to ensure they meet ISO9002 industry standards.

Performance. It's easier to get a grip on costs when you can precisely design your PCs to match the evolving performance needs of their users. Your PC vendor can help you boost user productivity and extend PC lifespan by allowing you to custom-configure your PCs with the technology you want when you want it.

Manageability. The more control you have over your PC operations, the less hassle and expense you face. You

"Custom configurations and Gateway's relationships with major vendors means we get the 'best of breed' every time we buy a Gateway system. Quality, support and price — they're certainly all there with Gateway 2000."

— John Baumann, President
The Swiss Colony, Inc.

Delivers!

an save a bundle with a PC vendor who's eveloped a way to minimize or even eliminate ie post-delivery add-ins that force you to istomize each machine before set-up.

Service. Tech support has to be there hen you need it. Yours can be even more cost-ffective when your PC vendor support team nows who you are, understands the demands your business and responds quickly.

Lifecycle cost. Much of PC expense mes after initial purchase. The right PC ndor can help you keep these costs under ntrol with fairly-priced quality products istomized to your needs and supported by a am of experts assigned to your organization.



ateway 2000: A Value Approach Enterprise Computing

According to estimates developed by industry experts, end-user operations and chnical support account for most of a PC's cycle cost, which is something in excess of *times* the initial capital investment.

The good news is that corporations save up to half of those costs by reducing d-user expenses, improving administrative nagement and implementing such capabilities asset tracking systems. It's also good news t Gateway 2000, itself a *Fortune* 500 company, help you achieve those savings. Gateway's us on the *value* of PC ownership has racted business from 80% of *Fortune* 1000 npanies; their purchases accounted for 5 billion of Gateway's $5 billion in 1996 enues.

How does Gateway do it? By honing nology and components to deliver the efits and capabilities today's organizations d to achieve a competitive advantage. And by working to aggressively lower life cycle PC costs.

Gateway's E-Series

Leading this important value-oriented approach to personal computing are Gateway's E-Series PCs for the enterprise environment. They help reduce PC ownership costs by incorporating technologies that allow remote configuration, maintenance and remote software download from a central point. Hardware features also have been added to increase IS control over PC implementations. Several value-priced E-Series models are available:

- **The Gateway E-1000 and E-1000N** are specifically designed for high-volume network environments. Both the E-1000 and the E-1000N are built to your order based on a small form factor that takes up less space. The E-1000N maintains critical features of the traditional PC, such as compatibility with existing Windows business software, while providing a NetPC-compliant system designed specifically for centralized administration. Both systems, which Gateway is glad to customize to meet your particular needs, come standard with a 166MHz Pentium® processor, 16MB RAM, a 1.2GB hard disk drive, a 3.5" floppy, 2MB video RAM, 16-bit business audio and an integrated 10/100 Ethernet. The system also includes two full-length expansion slots, one of which is a shared ISA/PCI slot. In addition, it comes standard with a high-quality 15-inch monitor supporting display resolutions up to 1024x768. Pricing starts at $1,199 with monitor.

  Complementing the use of the NetPC guidelines for the E-1000N systems, Gateway surpassed Intel's Wired for Management Baseline Specification to guide the management features in its E-1000 system and other business desktops, assuring customers of highly-manageable, interoperable systems.
- **The Gateway E-3000 and E-3100** are mainstream PCs based on the latest generation

of Intel Pentium processors, including Pentium with MMX™ technology, Pentium Pro and Pentium® II. These machines, too, take less space. They're network-ready and easy to install, thanks to color-coded cables that match the ports on the backplane. Access to external drive bays and the system interior is easy. And, like all E-Series products, the E-3000 and E-3100 offer advanced management features that ensure low-cost administration and control.

- **Gateway's workgroup, departmental and enterprise level servers** round out our offering for your organization. To ensure the value of its forthcoming server systems, Gateway has acquired Irvine, CA-based Advanced Logic Research, a pioneer in open, multiprocessor PC servers. ALR engineered the industry's first four-way and six-way SMP server systems based on Intel's Pentium Pro technology.

Gateway designed the E-Series systems specifically for networked environments. *All* E-Series PCs come standard with Ethernet networking solutions and have undergone extensive in-house Novell® certification and compatibility testing with Windows NT® and Windows® 95 operating systems. Some systems even include remote "wake up" capabilities.

Gateway E-Series systems also incorporate a common feature set across all platforms, which means you'll get the stability, consistency and ease of integration you need. Platform transitions will be managed for stability without sacrificing an aggressive technology focus — so you can adopt new technologies at a pace you can control.

All E-Series systems ship with Intel's LANDesk® Client Manager v3.01. Features include SMART drive and PC health indicators like temperature and voltage monitors so you can remotely detect and avoid costly product failures and reduce or eliminate the need for IS staff to go onsite to diagnose problems.

E-series systems are shipped in new, tool-free access desktop and midtower cases with standard drive openings, color-coded I/O cables and case security options. That means easy setup, great flexibility and theft protection.

Gateway's E-Series products are only the start. There's much more to what Gateway can do to keep your PC costs in line.

Maximum value:
Gateway 2000 Major Accounts, Inc.

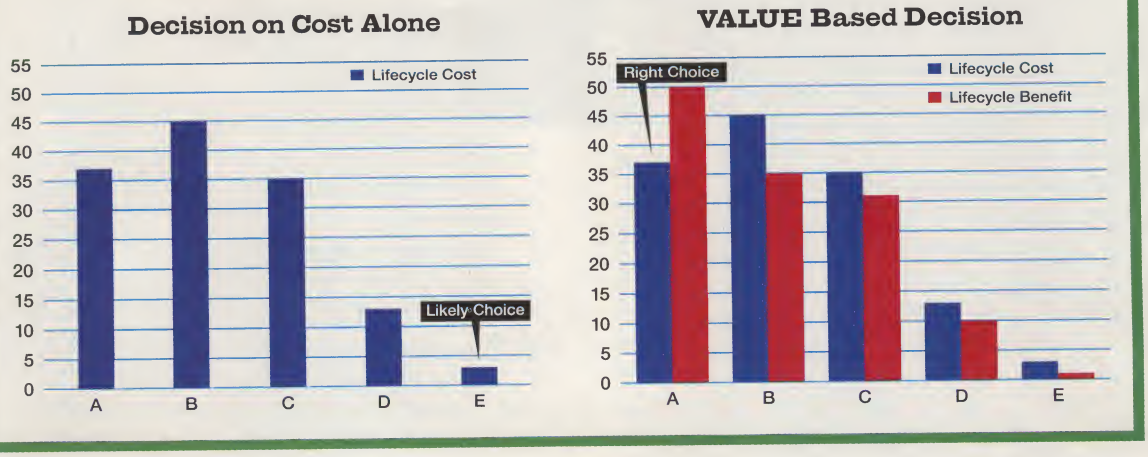
An expanded sales and support infrastructure focused exclusively on corporate, government and education customers makes it easy for you to put the E-Series to work in your organization. Gateway Major Accounts has been working for years to ensure that large Gateway customers get what they're really looking for: the right mix of benefit and cost so PCs deliver maximum value. This expansion has doubled the number of Gateway Major Accounts sales and support staff and will provide greater emphasis on face-to-face sales through regional and local account executives in key U.S. cities.

Dedicated corporate service and support. Major Accounts customers receive support centered on the needs of corporate, government and education customers. Technicians working in this corporate function handle only large-site accounts and receive advanced training in networking and other areas. In addition to our warranty for corporate desktop systems as well as 24x7x365 toll-free technical support, Gateway has the ability to meet a wide range of customer needs for specialized services on E-Series systems through relationships with leading PC service providers.

The customer bubble. Each Major Accounts customer is assigned to a "customer bubble" supported by a Gateway team that includes an account manager, a customer service representative, a systems engineer, an accounting department staff member and an sales executive. So whatever your problem, you have someone — the *same* someone — to turn to who knows you, your organization and your concerns.

Gateway's Custom Integration Services. Gateway's unique Custom Integration Services (CIS) enable qualifying large-volume purchasers to configure systems with precisely the hardware and software you want, much like a traditional reseller. CIS enables Gateway to integrate into

Getting the Most For Your PC Dollar



your product order certain software and hardware components that are typically *not* part of Gateway's standard product offering. Result: your post-manufacturing handling, expenses and time demands on IS resources are reduced. Such custom components include application and operating system software downloads, network cards, terminal emulation cards, video cards, hard drives, TBUs, CD-ROMs, scanners, memory expansion and most other internal or external peripherals.



Gateway's Focus: Value of Ownership

Whether yours is a large organization or a handful of dedicated professionals, you can benefit from Gateway's unswerving commitment to improving the value of PC ownership. The value-price of Gateway's E-Series and other PC products is only part of that ongoing effort. Gateway has also worked hard to respond to the other cost-value areas associated with PC ownership, including end-user expenses, technical support and administration.

Smoothing end-user expenses

More than half of the total life cycle cost of a PC lurks in what industry groups call end-user expenses. This includes downtime (such as cost of an idle employee's wage, lost sales), the cost of "futzing" with the computer (like playing Solitaire) and training (to use new applications), as well as any time end-users spend designing databases, word processing or other tasks.

The opportunities here for improving PC value are enormous and Gateway has tackled these issues head-on by:

- **Deploying Windows® 95 and Windows NT®.** Windows 95, a standard Gateway offering, can reduce the cost of end-user operations substantially, because, on

"We chose Gateway computers because they were the best machine for the dollar. But what keeps us coming back is the service. We couldn't ask for better tech support."

- Fred Gronemeier, Systems Analyst
Zippo Manufacturing Company

average, studies show users complete daily tasks twice as fast only 90 minutes after first using it. Windows NT, an alternative Gateway standard offering, also helps reduce costs.

- **Continually evaluating the "out-of-the-box" experience.** Gateway's Usability Team ensures all products are usable by both new and experienced users alike, reducing training needs and calls to your help desk. And with CIS the experience can be custom made for your organization.
- **Speeding up parts replacement.** Gateway 2000's quick replacement part turnaround minimizes system downtime, a significant PC life cycle cost factor.
- **Reducing component failure rate.** Research by Gateway and our strategic suppliers (such as ATI, Intel, Microsoft, Sony and Western Digital) combine to provide a high level of failure reduction research, thus lowering downtime.

Delivering on technical support

Including "break-fix" problem resolution, application development, software upgrades and other help desk activities, technical support claims almost 20% of typical PC life cycle costs, according to industry experts. By working creatively with its customers, Gateway can reduce the cost of technical support by:

- **Carefully planning product transitions.** Gateway's close vendor relationships mean you'll have access to product information and evaluation samples before new products are introduced.
- **Scheduling maintenance according to your needs.** Visits by service technicians are arranged at your convenience on E-Series systems, thereby reducing system downtime and avoiding your peak-demand periods.
- **Easing the support burden.** Gateway efficiently absorbs the majority of "break-fix" support associated with its PCs. What's more, service options from one to three years on E-Series systems reduce your need to keep large numbers of support technicians on hand.
- **Using manufacturing information more effectively.** Each Gateway support technician has complete system information at his or her fingertips. By identifying only the serial number of a system, a technician can get board-level information about the product in order to provide quick problem resolution.
- **Putting information at your fingertips.** Gateway's FaxBack® service provides you with volumes of support information. Such quick access to important information cuts down on the overall turnaround time necessary for each "break-fix" issue, which, in turn, means your end-users will spend less time and money waiting for problem resolution. And Gateway's website provides 24-hour access to updated drivers and technical information.

Making administration simpler

For corporations with a lot of them, PCs can get expensive to administer. Costs associated with organizing hardware and software purchases, tracking PC assets, handling lease arrangements, disposing of obsolete equipment, etc., can add up fast. Gateway can help here, too, by:

- **Letting the factory do it.** Gateway Major Accounts Custom Integrated Services ends the need to customize each PC before installing it. More and more of the work normally associated with setting up a new PC — such as attaching asset tags, installing certain kinds of software, integrating special network components, preconfiguring network systems, and so on — can be done when the systems are built, thereby substantially reducing installation costs.
- **Ordering on-line.** Gateway's Internet Configuration utility allows your purchasing staff to receive up-to-date pricing electronically, thus avoiding fax transmissions and the back-and-forth of

"Gateway custom configured a special line of PCs for our customers that will give them computerized management tools designed for precision farming. Gateway provides high-value computer systems and world-class support."

— Charles Studer, Marketing Manager, John Deere Precision Farming

information requests. Quote numbers can then be directly referenced on a purchase order, which makes buying quicker and less error-prone. And by providing order status electronically over the Internet, Gateway reduces the need for personal phone calls by your purchasing people. Of course, Gateway sales staff always phone you to confirm orders received via the Internet.

- **Taking the hassle out of asset tracking.** As Gateway leads the industry to incorporate more features of DMI and asset management, administration costs go down, thanks to more efficient asset tracking, while technical support and end-user costs are reduced, thanks to an ability to anticipate failures and automatically deploy service response.
- **Exploiting the direct business model.** Gateway's sales organization enjoys quick access to all components of Gateway's business operations, which eases the amount of interaction you must have with various operational groups. And as a Gateway Major Account, you'll be assigned to an expert support team that will ensure your needs are met quickly and satisfactorily.
- **Ensuring that parts are widely available.** Gateway's nonproprietary parts are available from many suppliers around the globe — including Gateway itself. So you'll never face the risk of parts shortages or lack of availability in the future.
- **Offering a variety of buy and lease options.** Gateway helps you conserve capital and still get the cutting-edge computers you want. Convenient, fixed monthly payment plans can be established to work within your budget constraints. Since Gateway works through independent leasing companies, you can benefit from flexible lease options.

Gateway helps you keep the right balance

Whether you're buying one PC or thousands, Gateway can help you find the right balance between PC cost and PC benefit. You'll also find that you'll get more than you ever have before for less than it's ever cost you before. Here's why:

The advantages of buying direct. Buying direct from Gateway cuts out the increased costs of a middleman and gives you direct access to your own team of Gateway professionals.

Delivering quality and reliability.

Buy or lease: How You Pay Affects Value

Capital is the lifeblood of any business. There's no value in buying a system, no matter how effective, with a price-tag that compromises your ability to continue operating effectively. You'll want to carefully investigate the variety of payment options offered by vendors — they can be extremely valuable.

Most probably, your first decision will be whether to buy or lease. There are competing schools of thought on which gives you the most value for every dollar spent:

- **Cash And Carry.** Many businesses pay cash to avoid interest charges. You can still depreciate your purchase and gain a tidy tax benefit without diluting that gain by having to borrow the money. Be sure to ask your vendor what types of payment instruments are available. Typical options should include pre-paid company check, COD company check, and/or COD cashiers check. If you intend to purchase regularly from a particular vendor, you might find they have Net 30 terms available. And, of course, most vendors accept credit cards. Some even offer their own and give you bonus points for using them.

- **Leasing's For Me.** The popularity of leasing is a testament to its inherent advantages. In addition to a better deal on depreciation than cash gets you, leasing lets you keep cash in your account for other business reasons and opportunities. Many vendors offer leasing programs. In addition, independent finance companies offer leasing arrangements. When evaluating a vendor's lease options, be sure to ask about what's included in the lease. One vendor may bundle in services such as maintenance and tech support, others may charge separately. Look for a program that will work with your budget timeframes and fixed per-seat requirements.

Don't Overlook The Value of Service And Support

The relationship you have with your vendor doesn't end with the sale. In fact, it really doesn't begin until you complete the transaction. That's when the quality of service and support your vendor provides will really become apparent. Unfortunately, you can't know how valuable the service and support will be to your company until you need help. There are, however, some guides for rating the value of a vendor's service and support offerings:

- **After-Sale Support.** It may be horribly inconvenient for some vendors, but computer system problems don't only happen during business hours. You need coverage and protection 24 hours a day, seven days a week, 365 days a year.
- **Access to Immediate Technical Information.** Anyone with a touch-tone phone or fax/modem should be able to receive technical and informational documents from their vendor. Some forward-thinking vendors are also providing tools to help you manage your infrastructure by enabling easy access to a variety of system information.
- **Customized Service.** What if you could create your own PC service and support package? This can be an extremely valuable opportunity and some PC vendors offer it. You select areas for coverage based on your internal resources, not some pre-determined set of criteria. This kind of more effective use of resources can decrease your technology service costs across the enterprise.
- **Other Options.** In addition to extensions and upgrades to your warranty, you might find a vendor who will offer onsite system set-up, add-on component installation and technical software support, including installation, configuration and problem resolution.
- **People.**. Who's at the other end of the line when you call for help? It can make all the difference. It's not reasonable for you to interview a vendor's employees, but you can get a feel for the investment a vendor is willing to make. Ask how the vendor trains its own people, and how frequently.

Gateway's industry-standard components meet rigorous quality and compatibility tests before we build them into your PCs.

The right technology when you need it. There are no compromises with Gateway computers because we build your systems with the first-rate, leading edge components.

Solutions customized for your needs. Gateway's Custom Integration Services program helps you avoid customizing your PC before setting it up.

Leasing flexibility. You can conserve capital and still benefit from the strategic advantage of cutting-edge computers with Gateway's convenient, fixed monthly payment plans.

Technical support that keeps your business going. Gateway's extensively-trained technical support staff gives your business another valuable asset: answers to your technical questions 24 hours a day, seven days a week — and the call is toll-free.

Relationships that protect your future. Close, long-term relationships with vendors like 3Com, ATI, Intel, Iomega, Microsoft, and Sony help Gateway anticipate industry changes and new technology.

With our E-Series PCs, Gateway 2000 can maximize the value of your PCs right now and in the long haul, too. So we invite you to check out all those studies on PC cost of ownership — and then give us a call so we can show you the Gateway *Value of Ownership*.

You can check us out at the Gateway 2000 website at http://www.gateway.com. For more information about Gateway 2000 Major Accounts, Inc., call us at (800) 779-2000 or look us up on the web at http://www.gateway.com/majoraccounts.htm. You won't be disappointed.



800-362-5812

www.gateway.com/majoraccounts.htm

© 1997 Gateway 2000, Inc. GATEWAY 2000, black-and-white spot design, "G" logo and "You've got a friend in the business" slogan are registered trademarks, and GATEWAY is the trademark of Gateway 2000, Inc. Intel and Pentium are registered trademarks, and MMX is a trademark of Intel Corporation. All other brands and product names are trademarks or registered trademarks of their respective companies. Many Gateway 2000 products are custom engineered to Gateway 2000 specifications, which may vary from the retail versions of the software and/or hardware in functionality, performance or compatibility. All prices and configurations are subject to change without notice or obligation. Prices do not include shipping or applicable sales tax.

Microsoft Internet Explorer 4.0 Managed Webcasting vs. Netscape Netcaster

Browsers Get Pushy

SNEAK PREVIEW

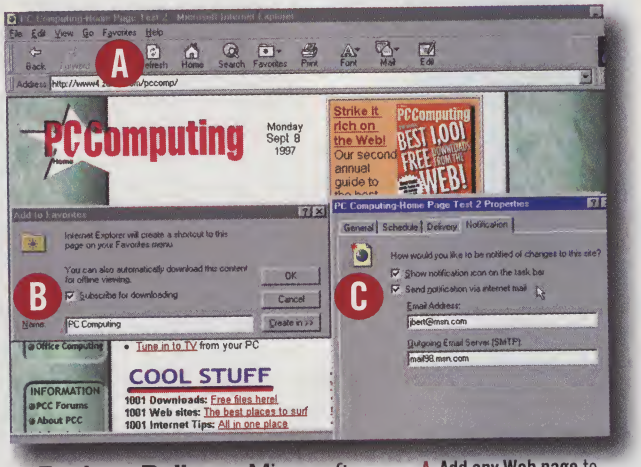
It would be silly if you had to hunt across the Internet just to find your e-mail. Soon the same may be said about Web pages. If you like the idea of having your favorite site's content automatically delivered to your PC, you're ready for push. And of the countless companies that offer push products, the two most promising are Microsoft and Netscape.

Both Microsoft Internet Explorer 4.0 (IE4) and Netscape Communicator have push tools that automatically download Web pages, inform you of updated content, create channels of user-specified sites, and even display Web content on your Windows desktop—without the aid of a traditional browser. We previewed the push tools in prerelease versions of IE4 and Communicator. While each program was buggy and lacked many of the features slated for the shipping version, both were easy to use and showed great promise.

Any differences? Quite a few. IE4's Managed Webcasting push features are better integrated with its Web browser and offer more configuration options. However, Communicator's Netcaster, with its television-inspired Channel Finder interface, does a superior job of presenting popular Web channels (sites), such as ABCNews.com and CNNfn.

Push and Pull But there's more to push than channels and downloads. A behind-the-scenes battle is raging between Microsoft and Netscape over which company's technology will control the next generation of smart push technology.

In its simplest form, push software was incapable of determining a page's content. While first-generation push programs could download a specific number of page layers at ABCNews.com, for instance, they couldn't download the pages that contained only financial news. But nascent smart push technologies such as IE4 Managed Webcasting's Channel Definition Format (CDF) let you receive pages based on content. The bad news? As of this writing

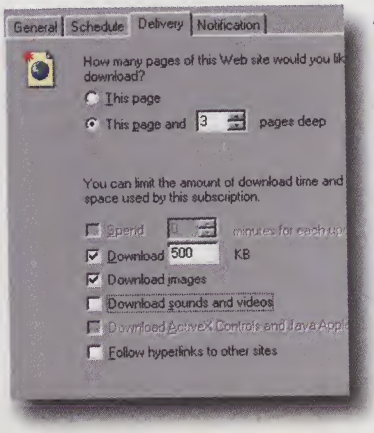


Desktop Delivery: Microsoft Internet Explorer 4.0's Managed Webcasting (above) and Netscape's Netcaster are turning push into shove. IE4's tools are seamlessly integrated in the browser and are a snap to learn.

A. Add any Web page to your Favorites list.

B. Check the Subscribe box to automatically receive a page.

C. Receive page update notification via browser icons, e-mail, or both.



As You Like It: Internet Explorer 4.0's Managed Webcasting offers dozens of configuration choices. Hard disk almost full? Limit the number of pages retrieved, discard attached sound files, or disregard hyperlinks.

FILEBOX

Internet Explorer 4.0 Managed Webcasting

★★★

Verdict: Custom content delivered to your desktop via Internet Explorer 4.0.

Pros: Integrated with browser; can retrieve pages from sites that require username and password; notifies you via e-mail when Web pages are updated; includes built-in software-distribution tools.

Cons: The Channel Bar adds clutter to your desktop; advanced CDF-enabled push not supported by Netscape.

Free (included with Internet Explorer 4.0)
Microsoft
(800) 426-9400, (206) 882-8080
www.microsoft.com/ie/ie40/
Reader Service No. 652

Netcaster

★★★

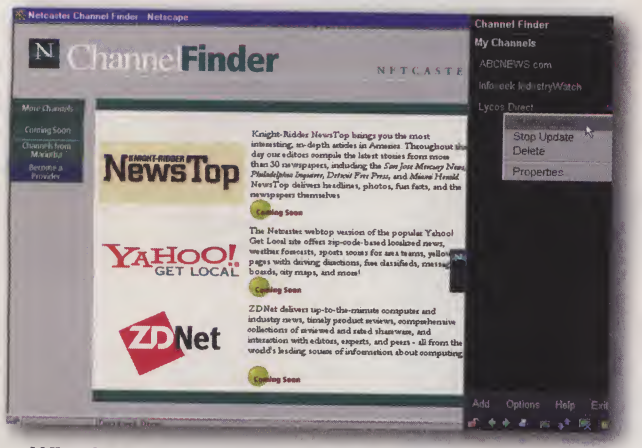
Verdict: A capable way to find your favorite Web sites and automatically receive content.

Pros: Netcaster interface provides one-click access to Web channels; allows software distribution over the Internet or corporate intranet.

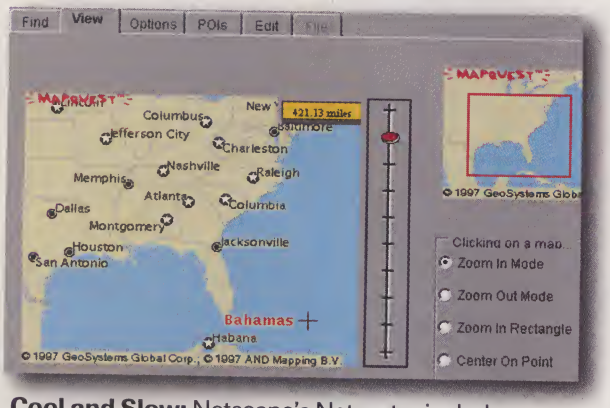
Cons: Poor integration with Navigator browser; awkward configuration tools; doesn't notify user via e-mail when Web sites are updated; included Marimba Castanet Tuner technology is slow over modem and has problems with firewalls.

$59 est. street price for Netscape Communicator (Standard edition), which includes Netcaster
Netscape Communications Corp.
(415) 937-3777
www.netscape.com
Reader Service No. 653

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*



What's On? Netcaster's Channel Finder is a program guide that helps you find engaging Web sites like technology news from ZDNet (shown here). The My Channels column provides an easy way to retrieve the latest information from your top picks.



Cool and Slow: Netscape's Netcaster includes Marimba's Castanet technology, which lets you access interactive Internet sites such as The MapQuest Channel. The problem? Slow performance.

Microsoft and Netscape still can't agree on the technology that'll make this happen.

While Managed Webcasting and Netcaster both let you download and monitor specific Web sites, IE4's push tools are easier to configure. For example, to add a Web site to your list of pushed pages in Managed Webcasting, you go to a site, select Add to Favorites, and click on the Subscribe for Downloading box. You then select how often Managed Webcasting will check the site (daily, weekly, and so on) and the number of pages to download. You also choose how IE4 notifies you of updated content, either by clicking on a red-asterisked icon on the taskbar or via e-mail. And if a site requires a username and password, you can enter that in a tabbed dialog box too.

In the Netcaster beta we tested, however, configuration is more complex. Let's say you're viewing a page in Navigator and want to add it to your push list. You must load a separate component called Netcaster, click on the Add button at the bottom of Netcaster's screen, and then cut and paste the site's name and URL into Netcaster's Channel Properties box—a laborious process. And Netcaster's configuration options don't match up to those in Managed Webcasting's. Case in point—there's no way to automatically enter a username and password for sites that require them. Furthermore, Netcaster doesn't give you the option of being notified via e-mail when your sites are updated.

Channel Surfing Both Communicator and IE4 let you sign up for content channels—a TV metaphor for popular sites such as Lycos Direct, MSNBC, Money magazine, and dozens of others. To add a site to your push list, choose from a list of channels displayed on the right side of the screen. You can add channels by using the push subscription tools. When you click on a channel, the Internet Explorer or Navigator browser loads and displays its contents.

Both programs make it easy to locate popular sites, but we prefer Netcaster's Channel Finder interface, despite the configuration woes we found in beta testing. Why? Since Netcaster is a separate component of Communicator, you can launch it when you need it. By comparison, once you've installed Internet Explorer 4.0, the Channel Bar lives on the right side of the Windows Desktop and adds clutter to the screen. And unlike IE4 with its Channel Bar, Netcaster displays menus and icons to help you accomplish common tasks such as adding or deleting Web sites.

Netcaster also includes Marimba's Castanet technology, a Java-based method for letting businesses with Castanet servers automatically distribute and update software across the Internet or an intranet. At press time, IE4 offered a built-in software-distribution technology. Netcaster's Castanet Tuner technology also lets users view information channels and run Java-enabled apps such as Corel Office for Java. However, we found that even with the added technology, Netcaster's performance was unacceptably slow over analog modem connections, a hindrance that limits its value to many users.

While the basic push features of Microsoft IE4's Managed Webcasting and Netscape's Netcaster are well established, their sophisticated tools are still under construction. Microsoft's CDF technology lets push software retrieve pages based on content. For example, CDF can let you automatically retrieve all those pages with political news from the MSNBC site.

However, for CDF to work, a Web site must contain a CDF file, which acts as an index of the site's content. And while the World Wide Web Consortium, the Web's standards body, is considering CDF as a standard for content-driven push technology, it has yet to make a decision. Although Netscape says it has no plans to support CDF, at press time Microsoft announced it would modify CDF to support Netcaster. But full implementation requires work on Netscape's part. Also noteworthy: Microsoft's new FrontPage 98 will support CDF. Stay tuned.

The bottom line? Both IE 4 Managed Webcasting and Netscape Netcaster provide easy-to-use and powerful push tools that automate delivery of Web-based information right to your desktop. How push technology will evolve, however, remains to be seen. JEFF BERTOLUCCI

SNAPPY™

The PCs Best Picture Grabber Just Got Even More Incredible 3.0



"Now the world's #1 way to get astonishing pictures into your PC is even better with incredible new features, higher quality and it costs less. Is this a cool world or what?"

Kiki Stockhammer,
Play Co-Founder
And Technology Evangelist
(Picture Grabbed With Snappy)

Now Only
$99.95
M.S.R.P.*

PLAY® INCORPORATED

Get The Free Snappy Demo @
www.play.com 800.306.PLAY

***More Snappy, Reduced Price**

Circle 238 on reader service card.

Tiny lawyer words: Play's Snappy and the Snappy logo are ours and thus trademarks of Play Incorporated. All other trademarks acknowledged. Play is a trademark of Play Incorporated. ©1997, All Rights Reserved

Web Access for the Whole Office

Until now, Internet access for your small office meant one person had one account and used one modem over one telephone line. With more than a handful of employees, the bill quickly climbs. But now with Artisoft i.Share 2.0 and Microtest WebEtc 1.0, networked users share a single modem and Internet account to gain simultaneous access to the Internet. These products save you a bundle on Internet accounts, hardware, and incoming lines.

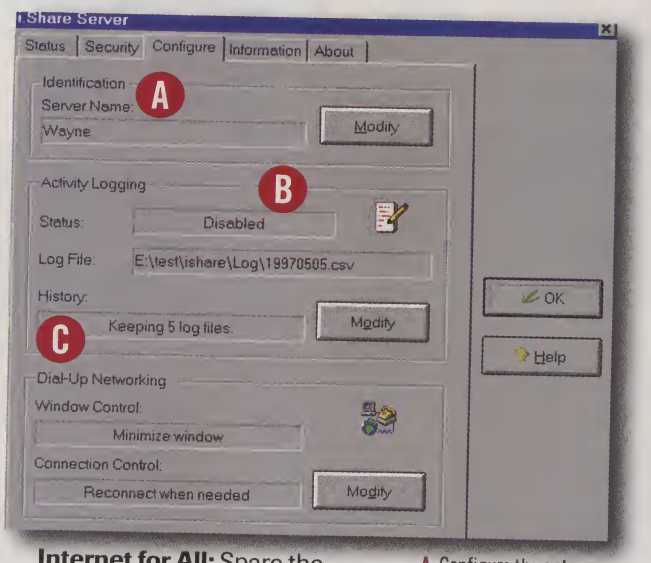
Let's Share Artisoft's $249 i.Share lets up to 32 users share one Internet address across a Microsoft, Novell, or LANtastic network. The product supports NetBEUI/NetBIOS and IPS/SPX protocols, as well as analog and ISDN modems. For security, i.Share acts as a firewall by preventing unauthorized intruders from accessing your LAN via the Internet. The product also offers built-in administration features that let you block access to selected Web sites and track Internet usage with two levels of password security. At press time Artisoft was working on an IPX version that should be available by the time you read this.

At $149, Microtest WebEtc costs less than i.Share, but it supports only 20 users at a time and doesn't include administrative features. However, Microtest is developing a $295 Pro version that will offer usage reports, audit logs, and restrictions on user access to sites. Like i.Share, WebEtc supports both analog and ISDN modems, but it works only with version 2.0 or later of Microsoft Internet Explorer and Netscape Navigator.

In our tests we successfully used Internet Explorer and Navigator to make Internet connections across our LAN. After installing i.Share and WebEtc, we simply activated our browser on each client system to initiate the server's Internet connection. We measured the performance of both systems and found that they offered comparable speed when several clients accessed the Internet simultaneously. However, with enough users (six to ten, depending on the level of activity) on a 28.8Kbps dial-up connection, throughput rates quickly slow to a crawl.

Well-Connected i.Share's Auto Connect feature selects the gateway with the least amount of traffic and makes the connection—something WebEtc can't do. However, on one of our test systems, Auto Connect couldn't locate any gateways. Of the two products, i.Share is slightly easier to set up because it supports NetBEUI/NetBIOS. And i.Share can work with both 16-bit and 32-bit clients—a real plus if your network contains both Microsoft Windows 3.*x* and Windows 95 machines.

Setting up WebEtc may be confusing for novices because your system must be configured as a TCP/IP network, complete with IP addresses. With TCP/IP set up on our test network, we had no problems installing the program. So which is best for your office? Artisoft i.Share costs more than Microtest WebEtc but it supports more workstations (32 versus 20) and comes with a full complement of administration features. **WAYNE KAWAMOTO**

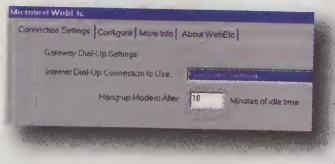


Internet for All: Spare the expense of buying a separate modem for every employee with Artisoft's i.Share 2.0 (above) and Microtest's WebEtc 1.0. Both let several networked users access the Net with one account, one modem, and one telephone line.

A. Configure the **gateway computer** you'll use to connect to the Internet.

B. Set administrative functions to **log activities.**

C. **Security features** let you control and monitor who accesses the Internet.



Zero Administration: While WebEtc doesn't offer administration tools, it's an easy way for several users to access the Internet over a network.

FILEBOX

i.Share 2.0

★★★★

Verdict: Makes your small-office Net access affordable and easy to control.

Pros: Simple setup; chooses a gateway based on load; built-in administration tools.

Cons: Auto Connect doesn't always work; expensive.

$249 est. street price
Artisoft
(800) 233-5564, (520) 670-7100
Reader Service No. 654

WebEtc 1.0

★★★

Verdict: An affordable but limited solution for sharing modems, telephone lines, and Internet accounts.

Pros: Good performance and price; easy to install if you have a TCP/IP network.

Cons: No built-in admin tools; can't pick gateway based on load; only supports Internet Explorer and Navigator 2.0 or later; requires a TCP/IP setup.

$149 est. street price
Microtest
(800) 233-5564, (520) 670-7100
Reader Service No. 655

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

Your Computer Guy Will Hug You. Your Bookkeeper May Kiss You.



Save $1,500 On The ServerSuite Designed Exclusively For Small Business.

Cheyenne®ServerSuite™ 3.0 includes three award-winning, industry-leading products that deliver a turnkey solution for all your critical server needs: storage management, anti-virus and fax communications. And for a truly affordable price. The $995 suggested retail price represents a savings of more than 60% if each product were purchased separately.

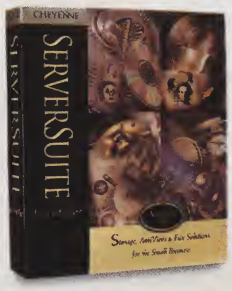
ARCserve®, Novell's preferred storage management solution, is the industry's best-selling data backup and restore product. It gives you total protection for all of your critical data.

InocuLAN®, Novell's preferred anti-virus solution, is the best anti-virus software you can buy. It offers the most advanced and comprehensive virus protection for your entire network — server and workstations.

FAXserve™, Novell's recommended fax solution, eliminates the need for paper faxes. With FAXserve, there's no more standing at the fax machine, employees can fax right from their desktop computer maximizing productivity and ensuring privacy. All three of these outstanding products will save you time, money and frustration.

Call today and find out how ServerSuite can help your small business. And if anybody gets too close, tell them a simple thank you will do.

Novell Preferred



ServerSuite
for NetWare Includes:
- ARCserve
- InocuLAN
- FAXserve

Call 1-800-991-4438 For A Free Trial
Or Visit Us At www.cheyenne.com/advert/ss3

COMPUTER® ASSOCIATES
Software superior by design.

©1997 Computer Associates International, Inc., Islandia, NY 11788-7000. All other product names referenced herein are trademarks of their respective companies.

Give Your Pages Good Form

It's the equivalent of becoming a pilot just to take a two-hour flight. Why wrestle with the hassles of CGI scripting just to put a simple interactive form on your Web site? Both Cardiff Software TeleForm Internet Solution and Caere OmniForm Internet Publisher promise it'll be easier to make your Web forms fluent.

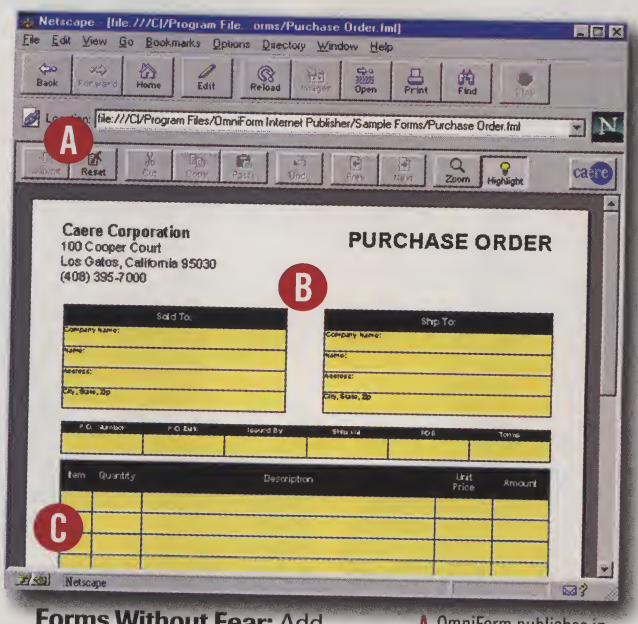
Web Conversion At $4,995, TeleForm Internet Solution (TIS) works only with TeleForm Elite, Cardiff's $4,995 forms recognition and processing package. If your company deals with large numbers of paper forms as well as those coming in via fax and the Internet, the $9,990 combo may save you the expense of hiring a staff to enter and manage all this information. If you're concerned only with publishing forms on the Net, then Caere's $895 OmniForm is a more logical and less expensive solution.

TIS takes the forms created with TeleForm and converts them into HTML for placement on your Web site. When a user fills out a form on the site, it's e-mailed to the TIS server, which processes the form and hands it off to TeleForm Reader (also part of Elite). TeleForm Reader converts the information and puts it into the appropriate database. Once the form is properly configured, the entire system works quickly and efficiently. One downside is that the converted HTML forms aren't nearly as pretty as the original TeleForm document, thanks to the limitations of HTML.

Custom Design OmniForm Internet Publisher creates forms in standard HTML, PDF, or Caere's Open Forms Markup Language (OFML). OFML allows more precise placement of elements, making for a more attractive form. And it's easy to get a free Netscape Navigator or Microsoft Internet Explorer for Windows plug-in to enable the browser to display the form. Unfortunately, you need to do some CGI programming to drop the information generated by the form into a database—or you can get a special $2,495 bundle that includes ExperTelligence's ExperForms to handle the conversion.

Like the expensive TeleForm combo, OmniForm can produce an electronic version of a scanned form. And both products include handy form designers to help you create forms from scratch. Both also provide methods of validating form entries before they're sent to the database. For example, if a user fails to include a phone number, either program can direct him to enter it. OmniForm's checking works only with forms saved in OFML format. TeleForm validates its forms using JavaScript—a slight advantage because JavaScript works with most browsers without a plug-in.

If your office already uses TeleForm Elite or you need to process thousands of paper, fax, and Internet forms every day, then the expensive but complete Cardiff TeleForm Internet Solution is the ticket. But if you want great-looking Internet forms and can stand to do a little CGI programming, Caere OmniForm Internet Publisher saves you both time and money. **JIM BURTON**



Forms Without Fear: Add interactive forms to your Web site with Caere's $895 OmniForm Internet Publisher (above) or Cardiff's $4,995 TeleForm Internet Solution. OmniForm creates forms that are attractive and secure.

A. OmniForm publishes in **Caere's Open Forms Markup Language,** which adds its own toolbar to your browser.

B. OFML displays forms with the **same layout and design** as on paper.

C. Easily **add new fields** with a few button clicks.



Post It All: Cardiff TeleForm Internet Solution is powerful, but it's part of an expensive package for gathering forms.

FILEBOX

OmniForm Internet Publisher

★★★★

Verdict: An inexpensive way to publish your small-office forms on the Web.

Pros: Produces professional-looking Web forms; inexpensive.

Cons: Browser plug-in required for best results; needs some CGI scripting to process the forms.

$895 est. street price
Caere Corp.
(800) 535-7226, (408) 395-7000
Reader Service No. 656

TeleForm Internet Solution

★★★★

Verdict: An expensive but powerful tool for adding a forms-based database to your site.

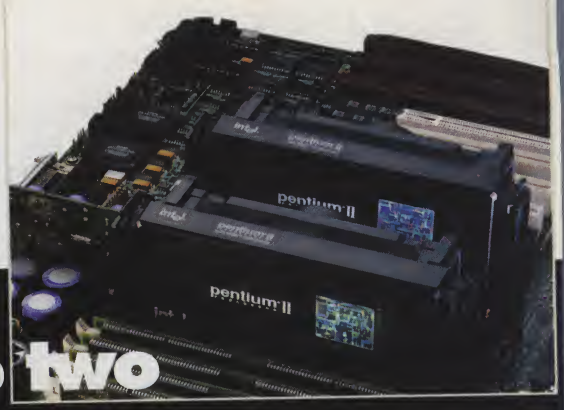
Pros: When bundled with TeleForm Elite, it's a complete forms-to-database solution.

Cons: Expensive; requires Elite (another $4,995); HTML-based forms aren't as attractive as those created by OmniForm.

$4,995 est. street price
Cardiff Software
(888) 254-8917, (760) 752-5200
Reader Service No. 657

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

It's a mini-tower, it's a rack drawer, it's...



..The ALR Revolution 2X

Up to two Pentium Pro or Pentium II Processors



The Revolution 2X's convertible chassis makes migrating to future rack-mount configurations easy and affordable.

It's said that flexibility is the key to success in today's corporate world. By that criteria, the Revolution 2X is definitely the system of choice for success-minded businesses. With this one computer you can choose between Pentium® Pro or Pentium® II processor technology, single or dual processing, workstation or server configurations, and mini tower or rack-mount form factors. Mix and match those features you need without having to pay extra.

And this flexibility lasts for years. You can start with a single Pentium Pro processor-based mini-tower, upgrade to dual processing then upgrade to single or dual Pentium II processor technology after that. And when your business develops a centralized enterprise network, the Revolution 2X can evolve into an easy-access rack-mountable system.

To learn more about the remarkable Revolution 2X please call ALRs toll-free number today.

Twice the Memory
With room for 512-MB of RAM, the Revolution 2X offers twice the memory capacity of competitive Pentium II chip-based systems

More Expandable
4 available PCI expansion slots, three EISA slots (one position is shared), a built-in 2-MB video subsystem saves expansion slots, configuration time, and money. A cost-effective option includes integrated Fast/Wide ultra SCSI.

RAID Reliability
Hot-pluggable drive bays and array subsystems are available for network applications requiring on-line drive replacement.

InforManager with ActiveCPR

Because down-time is just not an option

Server models include ALR InforManager, an advanced hardware management subsystem that helps users head off potential problems before they lead to costly downtime. These models also include ALR **ActiveCPR** processor fail-over/protection and ALR Server Watchdog server auto-recovery. These technologies make the Revolution 2X ideal for unattended web-server applications and other environments requiring 24-hour access with limited maintenance.

1-800-444-4ALR

http://www.alr.com

5 YEAR 36 MONTH warranty

ALR®
Advanced Logic Research, Inc.

ALR is on the Internet *CompuServe* - **GO ALRINC.** *& America Online* - **Keyword ALR** Advanced Logic Research, Inc. 9401 Jeronimo, Irvine, CA 92718 (714)581-6770 FAX: (714) 581-9240. Prices, configurations and specifications subject to change without notice. Systems shown with optional equipment. Pricing based on U.S. dollars. ALR is a registered trademark of Advanced Logic Research, Inc. Pentium logo and Intel Inside logos are trademarks of Intel Corporation. All other brand and product names are trademarks or registered trademarks of their respective owners. © 1997 by ALR

Circle 119 on reader service card.

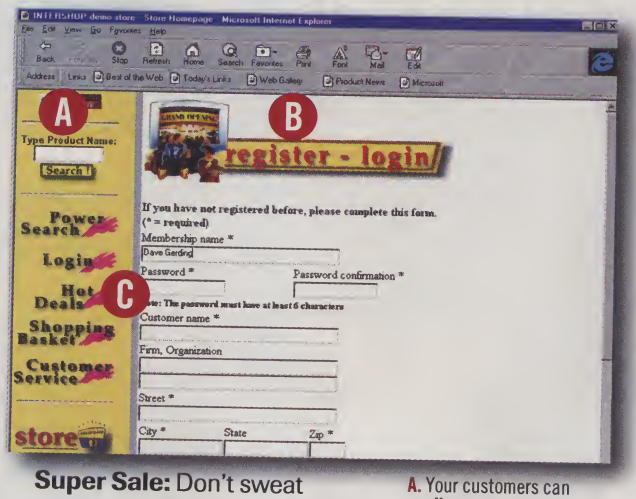
Set Up Shop on the Web

Everybody's selling something. And thanks to new low-cost e-commerce software, they're taking their wares to the Web. New to the Web-shopping race are two next-generation commerce products: Intershop Online 2.0 and Outreach Internet MallManager 3.0. Each has a few tricks to offer. The latest version of Intershop has become far more flexible, while MallManager makes payments easier to process. But which program fits your e-commerce plans best?

Open for Business Intershop Online 2.0 builds on a standout product. It includes the powerful Sybase SQL server System II engine, which hosts your catalog and maintains the transaction data. This means you aren't likely to overload the database engine even with multiple concurrent connections and a massive catalog. Intershop Online comes with a plain-vanilla store and a variety of templates to help you configure your store's layout.

Version 2.0 works with more payment fulfillment services than its predecessor, adding European-based Kleline and Payline to a long list including the more familiar IC Verify and CyberCash.

The merchandising features of Intershop Online have also improved. If you embed any of the proprietary tags used by the system, like a customer's total purchases, into any template, you'll get a far more flexible look and feel to your store. This latest iteration also adds support for tracking user profiles, letting you capture basic information about a consumer. Intershop can then generate pages customized for that user's interests.



Super Sale: Don't sweat setting up shop on the Net. Intershop Online 2.0 (above) includes plenty of tricks like suggestive selling to a customer based on his or her profile.

A. Your customers can easily search all your merchandise.

B. Register your customers to create user profiles.

C. Offer unique sale items to each customer based on a personal profile.



Hard Sell: Internet MallManager's merchandising features are strictly bare-bones.

Intershop Online still lacks sophistication in some merchandising features. For example, you can't suggest items to buy based on where the customer has been in the store, and the profiling feature requires the customer to fill in a form. Despite these minor annoyances, designers should find Intershop Online 2.0 a much richer environment in which to build a compelling store.

Easy Money The good news about Outreach Internet MallManager 3.0 is that you don't need a secure server to handle purchases. MallManager handles all transaction processing (credit-card verification) using your existing merchant account, which can be with just about any credit-card company. Outreach Communications then processes all orders purchased from your page on their server for a 1 percent service charge. The other good news is that MallManager lets you set up multiple stores on a single server, which is why it is targeted primarily at ISPs that sell store space to customers.

The bad news is that if you plan to use MallManager to host a single store you may want to look elsewhere. The product is very difficult to set up. For example, you create the inventory database one product at a time, manually editing text files or exporting your existing database in an annoying one-record-per-file fashion. Page design is also a manual affair. You insert the few proprietary tags needed to show inventory after designing your page. And it lacks adaptive merchandising features.

Intershop Online keeps getting better. If you're looking for an easy-to-use, expandable, and robust commerce solution, Intershop Online 2.0 is a great choice for the money. But for a single-store setup, MallManager 3.0 lacks too many of its competitor's features to recommend. **DAVID GERDING**

FILEBOX

Intershop Online 2.0

★★★★

Verdict: Build a booming storefront that's fit to order.

Pros: Easy to use; strong catalog-management features; remote store administration.

Cons: The merchandising features could use polish.

$4,995 est. street price
Intershop Communications
(800) 736-5197
Reader Service No. 658

Internet MallManager 3.0

★★

Verdict: Ingenious payment system, but the tools make your storefront hard to maintain.

Pros: Works with existing credit-card merchant accounts.

Cons: Lacks sophisticated layout and catalog management.

$1,500 for each merchant store server, est. street price
Outreach Communications Corp.
(888) 280-9999
Reader Service No. 659

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

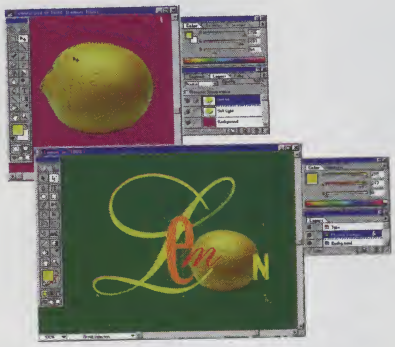
BUY NOW AND GET GRAPHICS • PLUG-INS LEARNING CD's IN THE BOX @ www.adobe.com/actionpack/print.html

NEW ADOBE® ILLUSTRATOR® 7.0 *for* WINDOWS®

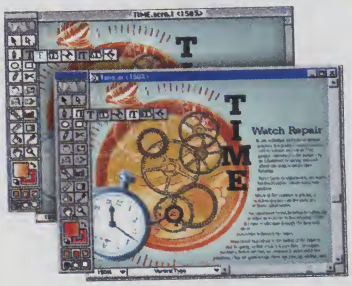
PICTURE THE POSSIBILITIES



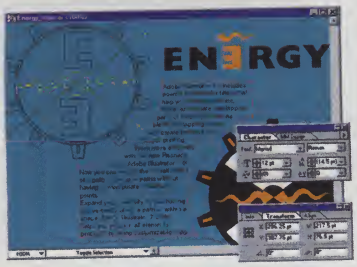
NO JOB IS TOO BIG OR TOO SMALL. From the simplest graphics to the most complex artwork, new Adobe Illustrator 7.0 for Windows handles just about all your illustration jobs.



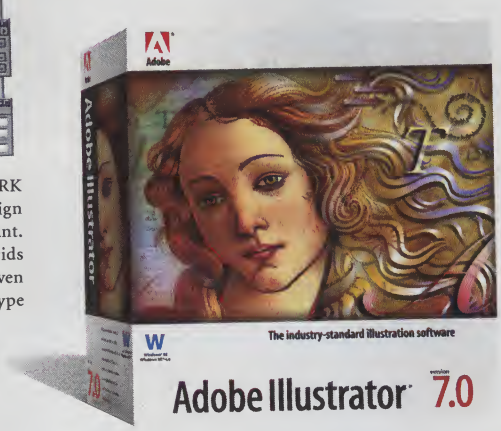
WORKS SEAMLESSLY WITH ADOBE PHOTOSHOP® and Adobe PageMaker® like no other illustration software. You learn and work faster, with the same user interface, including shortcuts and menus. Even drag & drop among all three programs.

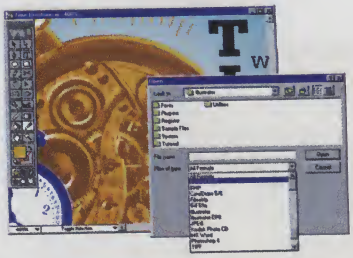


WINDOWS AND MACINTOSH—SAME GREAT FEATURES. It's never been easier to share files across platforms with colleagues, clients and service bureaus.



PRECISE CONTROL OF ARTWORK AND TYPE. Create, transform and align elements just the way you want. Adjustable "snap-to" guides and grids make layout design easier. You can even wrap text around any shape or run type along any line.





UNMATCHED COMPATIBILITY. Input from anywhere, output for everywhere. Support for more than 20 image, graphics and text formats, including TIFF, WMF, CDR, PhotoCD,™ GIF89a and MS-Word—plus Adobe PostScript® printing, too.

AND TRY IT FREE.

Just look what's possible now that new Adobe Illustrator 7.0 for Windows is here. Experience first hand the amazing control and flexibility Adobe Illustrator offers graphics software users like you. Get your tryout version,* video guided tour & product brochure all on CD-ROM, ABSOLUTELY FREE. Just go to *www.adobe.com/illustrator/freecd* to get your FREE CD-ROM. Or buy new Adobe Illustrator 7.0 at your favorite place to get software, and get the Adobe ActionPack® CD set free.

Adobe

Free Adobe ActionPack with purchase of Adobe Illustrator, Photoshop or PageMaker. Offer good on new retail units only, while supplies last. Not valid on upgrades or volume licenses. *No purchase necessary. Offer good in the U.S. and Canada only, and only while supplies last or until 12/31/97. Please allow up to 8 weeks for delivery. CD-ROM contains video, product brochure and tryout versions. Tryout versions do not save or print. ©1997 Adobe Systems Incorporated. All rights reserved. Adobe, the Adobe logo, Illustrator, Photoshop, PageMaker, PostScript and ActionPack are trademarks of Adobe Systems Incorporated. Windows is either a registered trademark or trademark of Microsoft Corporation, Inc. Macintosh is a trademark of Apple Corporation, registered in the U.S. and other countries. PhotoCD is a trademark of Eastman Kodak. All other trademarks are the property of their respective owners.

Circle 265 on reader service card.

Fish catches man,

(1)

Photo of Will Simpson, 8, and Richard Simpson, 46, with cod, 11" long.





The HP PhotoSmart System. The first pictures of the future.

It's a complete PC photography system– digital camera, photo scanner, photo printer– that lets you shoot, scan and print real photos on your home PC. Together with Microsoft®

boy looks on.



©1997 Hewlett Packard Company. Enlarged image of fish scanned and manipulated separately.

(2)

Photo of Will Simpson and of Richard Simpson, reduced 50%, then cropped and manipulated (by gleeful offspring) to dangle realistically from the end of fishing rod held by cod.

PictureIt!™ software, you can adjust exposures, change colors, crop and manipulate images—all as creativity dictates. To learn more, contact us at 1-888-HP4 FUN PICS or www.hp.com/go/PhotoSmart.

HEWLETT® PACKARD

Make Calls on the Net

Your telephone is the lifeline of your business, but exorbitant phone bills put a stranglehold on success. That's why Internet telephony sounds so promising—it lets you avoid your telecommunications company and make calls around the world at little or no expense. Two new products, Integrated Technology's CompuNet 2000 and InterAct Accessories' WorldTalk Internet Phone, aim to merge the best of Net phone software with peripheral telephony hardware. Unfortunately both are disappointments worth avoiding.



Talk Is Cheap: Integrated Technology's $179 CompuNet 2000 (left) and InterAct Accessories' $49 WorldTalk Internet Phone boast free Internet phone software with telephony hardware.

Can We Talk? The CompuNet 2000 package includes a keyboard and a phone hybrid. Since your desktop system has a keyboard and you already have a plain old telephone system, it's hard to justify the $179 investment. The makers of WorldTalk Phone, on the other hand, assume you own a full-duplex sound card and you're not happy with your bundled microphone and add-on speakers. To attempt to sway your decision, InterAct bundles both hardware peripherals with its software.

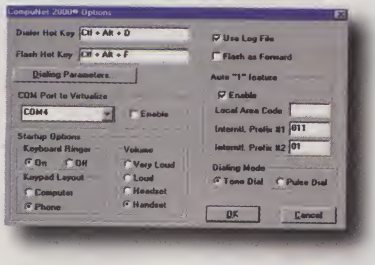
The CompuNet 2000 packs VocalTec Internet Phone 3.2, a $49 Internet telephony product, and CompuNet Autodial, a basic TAPI application. Unfortunately, this version of Internet Phone is more than a year old—VocalTec recently released Internet Phone 4.5, which includes voice mail and optional video features not found in the older version. And while Autodial is an interesting way to make phone calls from your keyboard, Windows 95 already includes an autodialer.

With the WorldTalk Phone you get a copy of Microsoft Internet Explorer 3.0 and NetMeeting 1.0, both outdated versions you can download for free off the Net.

Installing the WorldTalk Phone is self-explanatory, but the CompuNet 2000 is needlessly difficult. We found documentation for both products to be confusing and vague.

We placed phone calls across our LAN and across the Internet using both products and the results sounded awful. Our main complaint? The poor audio quality of voice-over-IP for both products—particularly distressing if you plan to use either for business conversations. Voice quality on both phones is actually worse than a bad, static-filled cellular connection.

Alternatives Abound As long as low quality and lack of standards keep Internet telephony in the hobbyist's realm, it's hard to justify the prices of these products. We'd like to see both of them include updated software, better phone hardware, and lower prices. By all means you should give Internet telephony a try. But for now, your microphone and speakers coupled with free Internet telephony apps like Microsoft NetMeeting 2.0 suffice. RICH SCHWERIN



Hello: The CompuNet 2000 keyboard can instantly dial phone numbers from your information manager using a basic, bundled TAPI application.

FILEBOX

CompuNet 2000

☆☆

Verdict: Nice idea, but don't trade your regular phone and keyboard for it anytime soon.

Pros: Includes VocalTec Internet Phone 3.2.

Cons: No cradle for telephone handset; limited documentation; difficult setup and installation; poor audio quality; TAPI program already in Windows 95; expensive for what you get.

Competition: Since most systems come with a keyboard, the challenge is getting users to unbundle it and use the CompuNet keyboard/phone hybrid.

$179 est. street price
Integrated Technology USA
(800) 393-8889, (201) 837-8000
www.iti2000.com
Reader Service No. 660

WorldTalk Internet Phone

☆

Verdict: Save yourself $49 and stick with your microphone and speakers.

Pros: None.

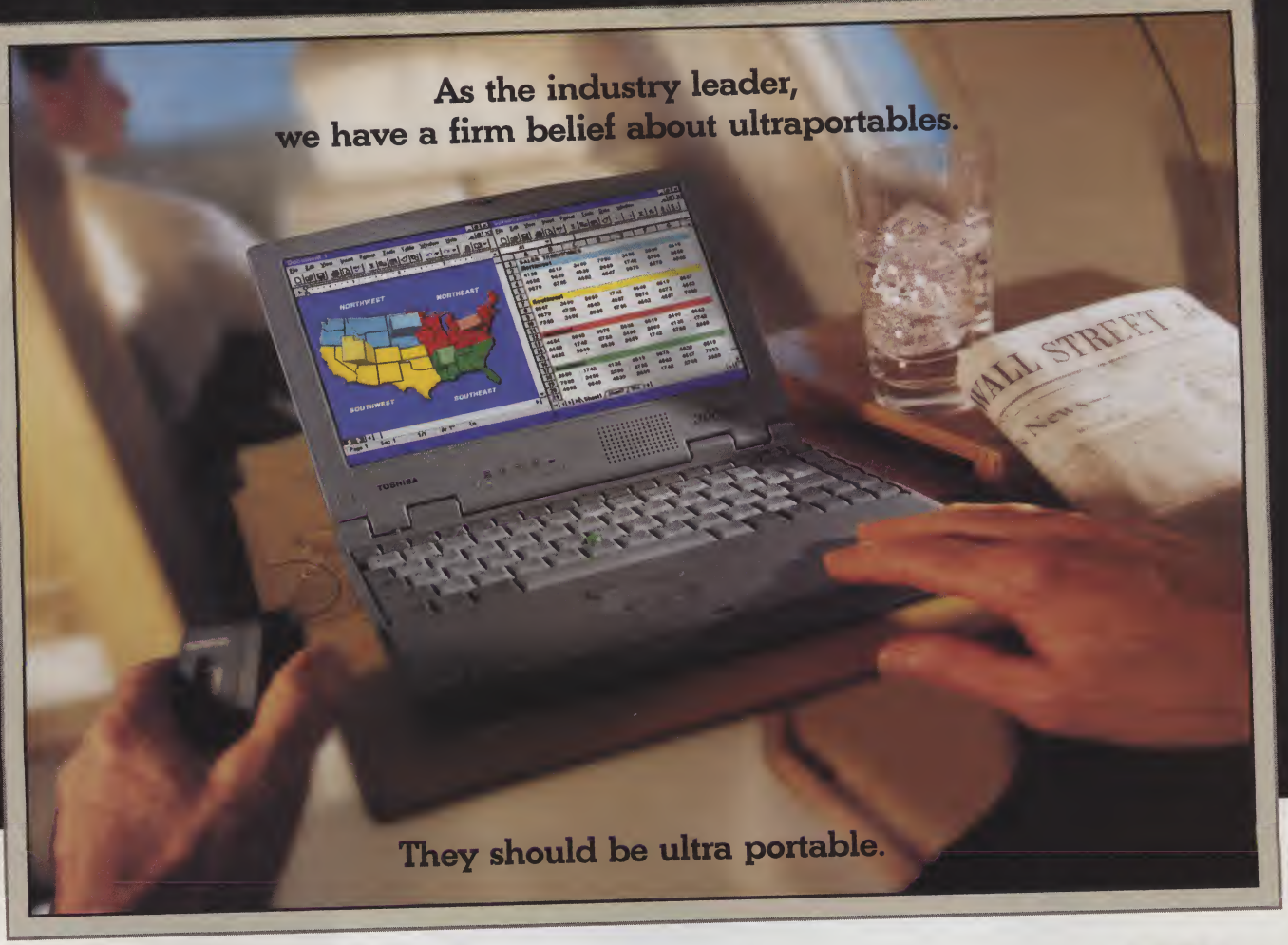
Cons: Outdated software; cheap, injection-mold plastic design; requires full-duplex sound card; poor audio quality.

Competition: Since most sound cards already come with a microphone and most sound card owners purchase speakers separately, many users may not want to switch. Speakerphone modems such as Cardinal Technologies MVP288XS cost more, but are far more sophisticated solutions.

$49 est. street price
InterAct Accessories
(800) 732-6866, 410) 238-2424
www.interact-acc.com
Reader Service No. 661

PHOTOGRAPHS BY ARNOLD TIOSEJO

Guide to the Ratings: ☆☆☆☆☆ *Excellent* ☆☆☆☆ *Good* ☆☆☆ *Acceptable* ☆☆ *Poor* ☆ *Unacceptable*



Introducing the new 3.8 lb. Portégé. Do more than ever. See more than ever.

Years ago we coined the term ultraportable to characterize the small footprint and unprecedented power of Portégé.® Since then, ever-changing business needs have made advanced technology and increased productivity essential. Equipping you to go head to head in business today, we introduce *the Toshiba Portégé* 300CT. Compact and light, yet uncompromising in its performance. Outfitted with a unique new panoramic screen that gives you the ability to easily view two applications side by side. And designed with a lightweight, internal magnesium frame ensuring durability and a sleeker look and feel. This is truly the ultraportable for the mobile, and upwardly mobile executive. With the new Portégé, you'll be one step closer to turning our philosophy into yours. **Always Lead.™**

PORTÉGÉ 300CT

- Panoramic 10.4" dia. active-matrix TFT color display, 1024 x 600 resolution
- 133MHz (2.5v) Pentium® processor with MMX™ technology, 256KB L2 cache
- 1.6 billion byte (= 1.51GB) HDD
- 32MB high-speed EDO DRAM (expandable to 64MB)
- PCI system-bus architecture
- HiQVideo™ PCI graphics controller with 2MB video memory (4Mbit EDO RAM)
- MPEG playback through either software or optional ZV Card
- 16-bit MIDI, .WAV and Sound Blaster® Pro compatible with speaker and microphone
- Universal Serial Bus (USB) port
- Supports two Type II or one Type III 16-bit PC Cards, ZV Cards or 32-bit CardBus Cards
- Port Expander
- Built-in 33.6Kbps, V.34 voice/data/fax modem
- Fast Infrared (FIR) IrDA compliant ports
- Lithium Ion battery
- Accupoint™ pointing device
- 3.8 lbs.
- Optional Multimedia Port Replicator
- Windows® 95
- 3-year limited warranty
- Toll-free technical support - 7 days a week, 24 hours a day

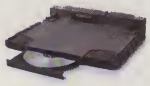
For more information, visit http://computers.toshiba.com, or call 1-800-457-7777.



PANORAMIC SCREEN
Allows 20% more workspace area and by its very nature, increases your productivity. View two Web sites at once on the new panoramic screen with 1024 x 600 resolution

MMX™ intel inside pentium® PROCESSOR

MMX™ TECHNOLOGY
Maximize your multimedia applications by 10-20% using the Pentium® processor with MMX™ technology.



EXPANDABILITY
The new Multimedia Port Replicator gives you 10X* CD-ROM, two stereo speakers and instant connection to your desktop environment.

In Touch with Tomorrow
TOSHIBA

© 1997 Toshiba America Information Systems, Inc. All specifications and availability are subject to change. *10X average speed. All products indicated by trademark symbols are trademarked and/or registered by their respective companies. Intel Inside and Pentium Processor Logos are registered trademarks and MMX is a trademark of Intel Corporation.

Circle 218 on reader service card.

Weave a Better Web Site

Somewhere along the way the Web got very complicated. Basic HTML skills and a few GIF files just don't cut it anymore and neither does a vanilla Web server. To run a real site you need commerce, advanced site analysis, and management. And if you want it simply and all at once, you need Microsoft Site Server 2.0.

Site Server is Microsoft's answer to the explosive growth of commerce-enabled and personalized Web sites. It includes a stand-alone version of Visual InterDev (the heavy-duty site builder) and also features Site Analyst (a link checker) plus dozens of other power tools.

Available in two versions, the basic Site Server 2.0 is designed for a busy corporate intranet. It makes it easy to personalize your site, deploy new content, and duplicate the content from one server to another. Personalizing your site means you can decide exactly what each user or group sees.

Get Personal To personalize pages, you use Microsoft's Active Server Pages technology and either VBScript or JavaScript to handle scripting. No C, C++, or Perl programming is required. Three features make up the core of personalization: user information, which consists of the user property database; the Send Mail component, which lets you automatically send e-mail based on user activity; and the Voting feature, which makes it a no-brainer to offer voting and display results in real time.

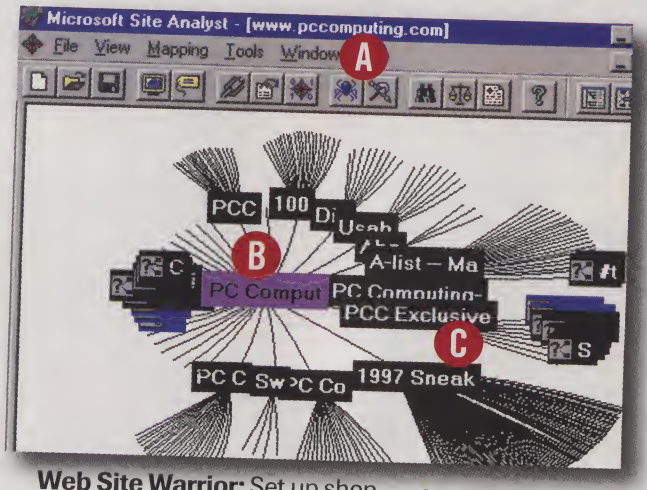
With all these newfound features and the pure size of many Web sites, management quickly becomes a full-time job. But with Site Server's management features, it's almost fun. For example, the Site Analyst tool creates a graphical representation of your site. It automatically checks for broken links and generates detailed reports.

The Enterprise version of Site Server adds the powerful e-commerce server Microsoft Merchant and advanced traffic analysis. Microsoft includes templates for building an online store and walks you through 14 steps that start with product information and acceptance of an order. For each step you're given the chance to customize the information. The level of detail means you really can't forget anything and you'll probably learn a few tricks about online selling in the process.

Big Guns The Buy Now feature makes it very easy for you to offer commerce on a remote site without the user ever leaving. It handles the entire process, sending the user to the proper site, authenticating the shopper, locating the product, and returning the shopper to your site.

For all the great features in Site Server, it's not without some drawbacks. Since it works only with Windows NT, Unix shops will have to switch. Plus there are heavy database requirements, so you'll have to purchase an ODBC database and hire someone to administer it.

Site Server 2.0 and Site Server Enterprise Edition are tightly integrated with other Microsoft technologies like Active Server Pages. If that's your environment, Site Server is a powerful tool you won't want to do without. And starting at $1,499, it won't cost you a fortune. **ADAM MEYERSON**

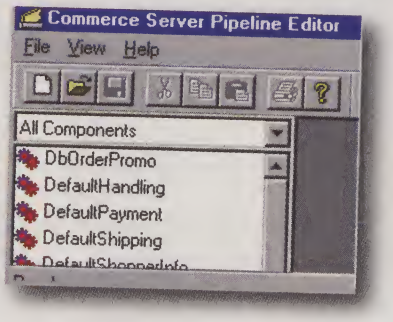


Web Site Warrior: Set up shop or serve up a custom database on the Web with Microsoft's Site Server. The titanic Web tool includes a raft of authoring, analysis, and management tools.

A. Verify links on your site with a button click.

B. Your **home page** is clearly highlighted.

C. Subsections of your site get **named automatically.**



Shipping and Handling: Use the Commerce Server Pipeline Editor to set up every detail of your selling process.

FILEBOX

Site Server 2.0

★★★★

Verdict: The ultimate, all-encompassing tool for building and managing big Web sites.

Pros: Everything from Web databases to electronic commerce to site analysis is in this nicely priced package.

Cons: Runs only on Windows NT (not Unix); database requirements mean you'll have to buy an ODBC-level database.

Competition: iCat Electric Commerce Suite and Intershop Communications Intershop Online can't compare in ease of use, and both lack the site-analysis and management features of Site Server Enterprise Edition.

System Requirements: 133MHz Pentium or faster, 64MB of RAM, 600MB of hard disk space, CD-ROM drive, Windows NT Server 4.0 with Service Pack 2, Microsoft IIS 3.0, an ODBC-compliant database for e-commerce.

$1,499 for Site Server 2.0; $4,999 for Site Server Enterprise Edition, est. street prices
Microsoft
(800) 426-9400, (206) 882-8080
Reader Service No. 662

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

A LAN COULD CARE LESS IF YOU'RE UNDERSTAFFED, OVERWORKED, OR EVEN EMPLOYED.



We can help. *A server isn't here to hold your hand. It's here to perform millions of operations per second. That's why at AST,® we're here to help you every step of the way. With management software that notifies you if there's a problem. And with a dedicated server support staff that's ready to solve those problems 24 hours a day, 7 days a week. We even have an option that includes on-site technician response within 4 hours. Because, sometimes, a helping hand is exactly what you need. For more information about AST Manhattan™ servers with Intel® Pentium® Pro processor, call* 1-800-945-2278.



Manhattan S Series

- 200 MHz Intel Pentium Pro processor, dual CPU capability
- 256 KB or 512 KB cache depending on model
- 64 MB ECC RAM standard memory, expandable to 1 GB
- SCSI CD-ROM standard on all models
- Three channel PCI Ultra/Wide SCSI disk array controller (array models)
- PCI Ultra/Wide SCSI-3 adapter (non-array models)
- 445-watt power supply
- Intel EtherExpress™ PRO/100B adapter
- 3-year on-site limited warranty
- Optional GuardianCare™ 4-hour on-site response program available
- Fully certified for Novell® NetWare® and IntranetWare,® and Microsoft® Windows NT®

AST® COMPUTER

Working for your business.™

intel inside

PENTIUM® PRO PROCESSOR

©1997 AST Research, Inc. All rights reserved. AST and the AST logo are registered trademarks, Working for your business and Manhattan are trademarks, and GuardianCare is a servicemark of AST Research, Inc. The Intel Inside Logo and Pentium are registered trademarks and EtherExpress is a trademark of Intel Corporation. Novell, NetWare, and IntranetWare are registered trademarks of Novell, Inc. Microsoft and Windows NT are registered trademarks of Microsoft Corporation.

Circle 114 on reader service card.

Web Tricks for the Rest of Us

SNEAK PREVIEW

There are dozens of Web animation and multimedia tools that claim to be one-button easy. And they are—as long as you're an animation professional who understands the lingo. If you're a mere mortal but still want to add a little spice to your site, check out Parable's ThingMaker. This $99 product is without question the easiest multimedia authoring tool around for the Web.

Creating good-looking, interactive effects full of sound and animation really does take just a few seconds. The downside? Your Web audience has to download another plug-in. For seasoned Web surfers, that's about as much fun as rotating the tires on your car. Fortunately, the plug-in is only 320K.

Fast Action Building interactive elements is simple: You click on an element with the mouse, and something happens. ThingMaker builds effects around mouse clicks—it works beautifully. There are three main areas: default, mouse over, and mouse click. Within each of those areas, you can assign anything you want, like animations, sounds, the launching of another object, or a link to another Web page. There's no scripting involved—not even HTML. Once you've made your interactive objects, simply pick their page destination and ThingMaker does the rest.

In fact, there's not a lot you can't do with ThingMaker. Despite its $99 price tag, it's encroaching on the territory of Macromedia Director and Macromedia Flash. Dozens of features can be applied to any element, including password protection, URL and e-mail links, animation start and stop, and sound play, to name a few. Best of all, your ThingMaker creations can be copyrighted directly in the program, so no one can "borrow" your work. It also lets you in on some tricks that were previously available only to professionals. Line-based animation, relationships between separate ThingMaker objects, collision detection, and other multimedia tricks are all possible.

Slow Down If large-scale professional Web animation is your game, ThingMaker may not be for you. Unlike Macromedia Flash, ThingMaker does limited compression of its elements. So with a sound here and a flashing icon there, your Web page can get bloated in a hurry. But if you keep it subtle, file sizes remain manageable. As of this writing, the product supports several graphics files, but only one sound type (WAV) and no video or animation files. The final product will support GIF89 animations, but it still won't handle many video file types.

If you're an old hand at Director but want to add effects to pages more quickly, watch for Parable's soon-to-be-released ThingConverter for Macromedia Director, which lets you export Director files straight into ThingMaker. That product is also expected to cost just $99.

Parable ThingMaker is hands-down the easiest—and cheapest—way to get your site moving. There's no scripting and no need for special server-based software. After a few minutes of orientation, you'll be creating eye-popping effects that would make any Webmaster proud. JACK LYON



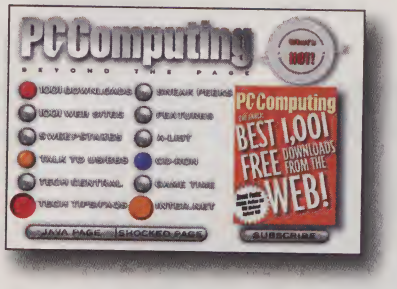
Web Magic: Outshine those high-priced sites with Parable ThingMaker. The $99 Web authoring tool is the easiest way around to add interactive sights and sounds to your Web page.

A. Pick any collection of images and turn it into an **animation.**

B. Add **interactive actions** to any graphic.

C. Import elements like graphics and sounds for use in the gallery.

Special Effects: Use ThingMaker to create an eye-opening navigational system full of animation and sound effects.



FILEBOX

ThingMaker

★★★★

Verdict: The easiest way to punch up your Web page.

Pros: The simplest multimedia authoring tool you'll find; creates interactive pictures, sounds, and animations; flexible enough to create a wide array of multimedia effects; no scripting necessary; easily copyrights your creations.

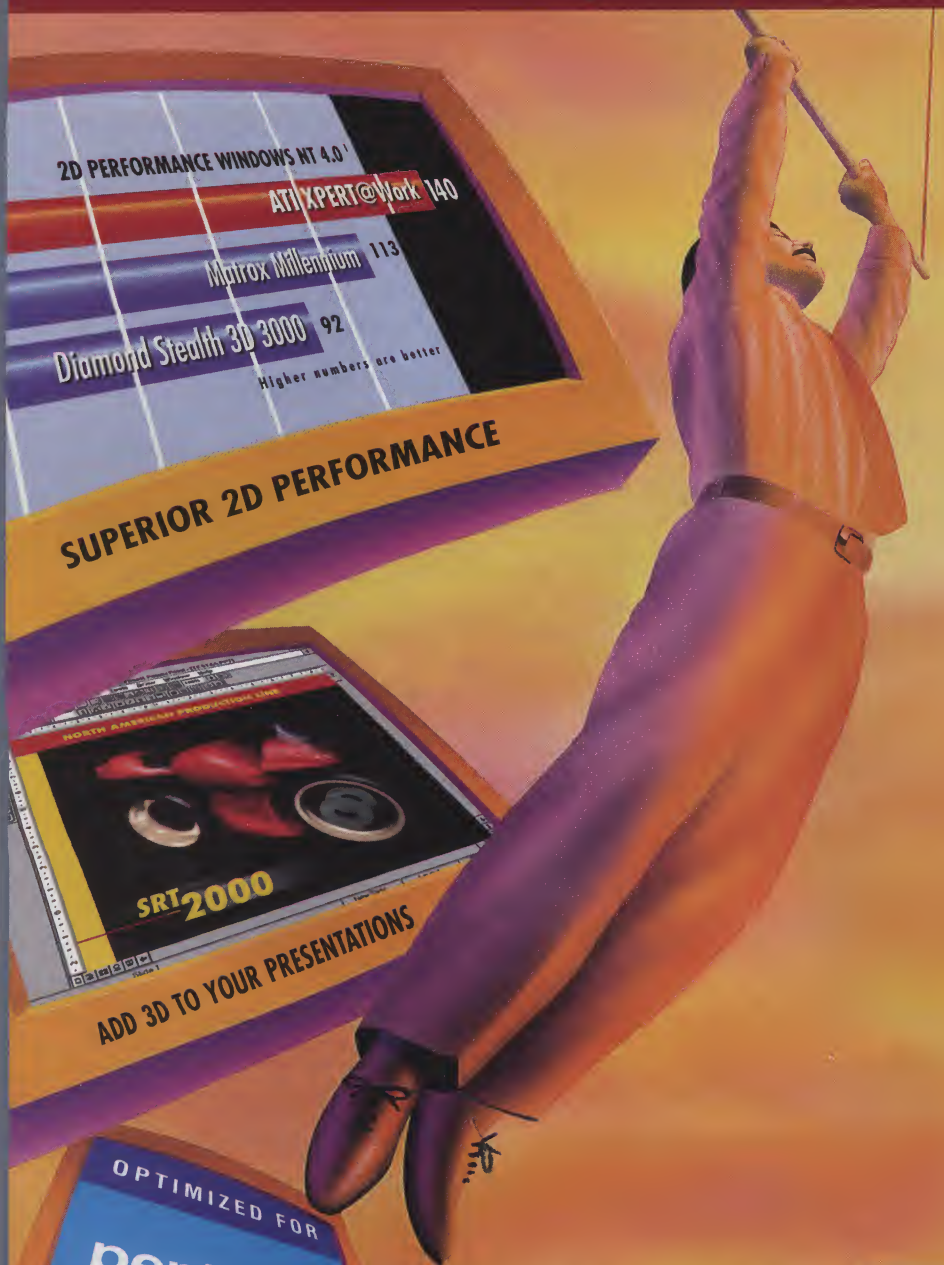
Cons: Requires a plug-in; as of this writing, can't handle many animation or video file types; file sizes can be large.

Competition: Macromedia Flash 2.0 is the premier Web animation tool. It also requires a plug-in, but its animations and sounds are far smaller than ThingMaker's. However, creating interactivity and animation is far more difficult with Flash since it uses the traditional time-line metaphor, doesn't have as many interactive options, and is more expensive at $249.

$99 est. street price; free demo available at www.thingworld.com
Parable
(617) 796-0860
Reader Service No. 663

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

ATI XPERT@Work puts the future firmly in your grasp.



ATI XPERT@Work is the NEW standard for Windows NT and Windows 95 graphics performance.

Professional Productivity

- Fastest performance for greater productivity in Windows NT and Windows 95
- Eliminate eye-strain with flicker-free images at up to 200Hz refresh rates
- Up to 8MB of ultra fast SGRAM for high resolution and true color acceleration

Leading Edge Support Now...

- Optimized for the best performance on Pentium II / PRO systems
- Rock-solid stability and worry-free compatibility with ATI's Microsoft Certified drivers

And for the Future

- With workstation-class 3D hardware that's DVD-ready, ATI protects your reinvestment into the future

Starting at $179[2]

Check out www.atitech.com or call (905) 882-2600



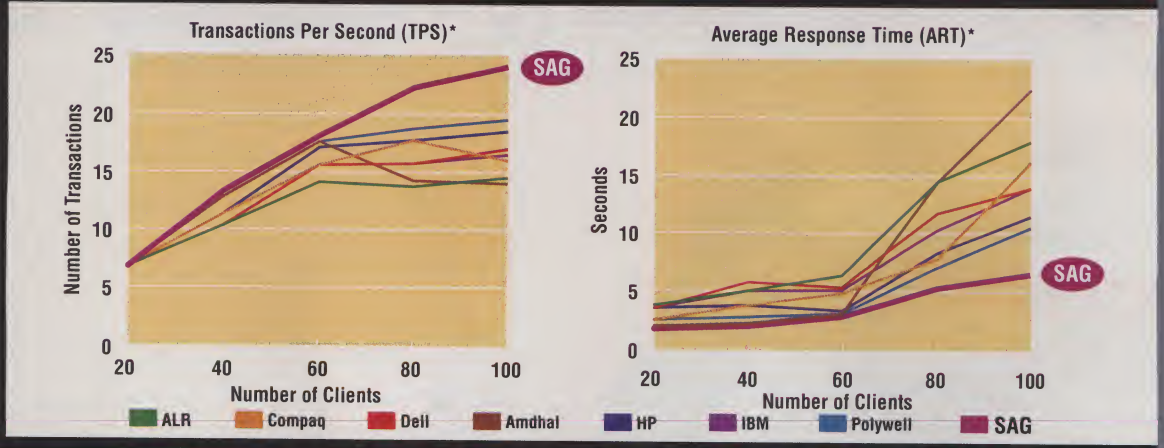
© Copyright 1997 ATI Technologies Inc. ATI, XPERT @ Work, 3D Rage Pro, ATI-TV and Now You See It are trademarks and/or registered trademarks of ATI Technologies Inc. All other product names are trademarks and/or registered trademarks of their respective owners. Features, performance and specifications may vary by operating environment and are subject to change without notice. Products may not be exactly as shown. [1]ATI driver used is a Microsoft Certification Candidate. 2D WinBench 97, Business Graphics Test at 1024x768x16bpp, 75Hz, run on an Intel Pentium II 266MHz, 512K cache, 32MB SDRAM, PCI bus, NT4.0. Hardware and software driver versions used: ATI XPERT@Work 4MB SGRAM driver release v4.10; Matrox Millenium 4MB WRAM v2.3 driver release v3.06; Diamond Multimedia Stealth 3D 3000 4MB VRAM v1.01 driver release v2.03. [2]Suggested retail price for 2MB upgradeable version.

Circle 164 on reader service card.

Now You See It.™

"SAG offers the best

NETWORK COMPUTING PRODUCT TESTING RESULTS*



SAG Electronics proved to be the performance champ in an independent test by *Network Computing*. Going against the biggest names in the industry, "SAG offers the best price/performance." Proving if performance (and price) counts in your business, you can count on SAG.

*Dual Pentium Pro RAID 5 Servers

SAG's Dual Pentium Pro RAID 5 Servers 6/1/97

Alpha 500 Server 7/1/97 8/1/97 9/1/97

Fastest CAD Card Available!

WORK STATIONS

STA DUAL PENTIUM 300 MHz CAD

- Intel Pentium 300 MHz CPU Upgradable to 2 CPUs
- 64MB of RAM Expandable to 512MB, ECC Supported
- Symmetric 40MB MX Open GL Video
- Slots: (6) PCI, (2) ISA
- Integrated Dual Channel Ultra Wide Controller Upgrade Path to Raid 5
- Sony 24x CD-ROM
- 9.1GB 10,000 RPM UW Removable HD
- JAZ 1GB Removable
- Keyboard, Floppy, Mouse
- Tower Case

$5859

Symmetric 16 & 8MB Video Available

STF PENTIUM II DUAL 266 MHz

- 1 Intel Pentium II 266 MHz Processor, Upgrad. to 2 CPUs
- 512K Cache
- Slots: (5) PCI, (4) ISA
- 64MB of RAM Expandable to 512MB ECC Supported
- #9 Revolution 8MB Video NEW
- Adaptec 2940 UW
- 4.3 GB Ultra Wide IBM 8.5 ms
- Sony 24x CD-ROM
- Keyboard, Floppy, Mouse
- Tower 300 Watt Power

$2699

6.4 IDE 9.5ms Solution

$2530

STA CLIENT PENTIUM 200 MMX

- 1 Intel Pentium 200MMX CPU
- 32MB RAM, Expandable to 128MB
- Seagate 2.1GB IDE
- #9 772 4MV-RAM, Video
- Sound & Speakers
- Sony 24x CD-ROM
- Keyboard, Floppy, Mouse
- Mid Tower Case

$1250

Intel Land Desk Option Available DMI Compliant

STA ALPHA 500 MHz

- 1 Dec Alpha 500 MHz CPU
- 1 MB - SRAM Cache
- 64 MB of Memory
- 4.3 GB 10,000 RPM UW Removable HD
- Adaptec 2940 UW
- #9 Revolution 8MB Video
- Sony 24x CD-ROM
- Keyboard, Floppy, Mouse
- Tower Case 300 Watts

$4499

8,16 & 40MB Open GL Video Cards Available

Hours 8:30am - 7:00pm • North Andover, MA

Fax 508.689.0180 GSA Schedule: GS-35F-3103D

AT&T on-site and 4 year extended warranties are available. Lease options available. Returns may be subject to restocking fee. RMA # must be acquired. Some devices have not been approved by the Federal Communications Commission. These devises are not, and may not be, offered for sale or lease, or sold or leased until the approval of the FCC has been obtained.

MORE AWARDS

- PC Magazine Editors' Choice — 9/24/96 SAG STA Pentium Pro 200
- PC Magazine Editors' Choice — 2/20/96 SAG STF 166 Pentium
- PC Magazine Editors' Choice — 2/20/96 SAG STF 150 Pentium

price/performance."

-Network Computing June 1, 1997



SERVERS, RAID 5 SUBSYSTEMS & STORAGE SOLUTIONS

The STF Line is our high end built to order product line. Each system is specifically designed for each customer, solving the issues of price, performance, reliability (fault tolerance), growth and ease of use. Our specialty in RAID technology has produced servers that are unique in the industry. Each features on-line storage expansion for hassle-free growth. Our boot-up configuration allows easy connections to all major O/S using GUI RAID Manager. Every server supports 15 drives per channel with up to 128MB Cache. And a powerful 32-bit RISC Processor gives the best performance in the industry.

STF RACKMOUNT QUAD

- 2 Intel Pentium Pro 200 MHz Exp. to 4
- 512K Cache
- 128MB of ECC 4 way Interleaved Memory to 1GB
- Slots (6) PCI; (4) EISA
- 9.1GB 10,000 RPM Ultra Wide Removable HD
- #9 2MB DRAM Video
- PILA8465B Ethernet 10/100
- Sony 16x CD-ROM
- Keyboard, Floppy, Mouse
- Rackmount Case with Redundant Power
- Server Management Software and Alarm Option Available

$9800

STF DUAL PRO 200 MHz

- 1 Intel Pentium Pro 200 MHz Processor Upgradable to 2 CPUs
- 512K Cache
- 64MB of RAM Expandable to 1GB
- Slots: (5) PCI, (4) ISA
- PILA 8465 B Ethernet
- 9.1 GB 10,000 RPM UW Removable HD
- Adaptec 2940 UW
- #9 2MB Video
- Keyboard, Floppy, Mouse
- Sony 16x CD-ROM
- Tower Case 300 Watt

$3870

Server Management Software & Alarm Option Available

STF PENTIUM II 300 MHz RAID 5

- 1 Intel Pentium 300 MHz CPU Upgradable to 2 CPUs
- 64MB of ECC RAM Expandable to 512 MB
- Integrated on Board 2 Channel, RAID 5 Controller, 2MB PCI Video
- Open Slots: (6) PCI, (2) ISA
- Q: (3) 4.3GB 10,000 RPM UW Removable HD
- Sony 16x CD-ROM
- Adaptec 10/100 PCI Ethernet
- Keyboard, Floppy, Mouse
- 13 Bay Tower with 400 Watt Redundant Power Supplies
- Server Management Software

$6499

RAID 5 FOR ANY COMPUTER SYSTEM

STC2000 20 BAY REDUNDANT ULTRA CONTROLLER SOLUTION

- Q: 2 3-Channel RAID 5 UW Controllers
  Both contollers are ACTIVE, giving ultimate performance. If one fails, the remaining controller automatically performs all functions.
  This gives the user the ultimate in performance and safety!
- 20 Hot-swappable Drive Bays
- 8 230 Watt Hot-swappable Redundant Power Supplies
- Sensor Panel Monitors:
  - Internal Temperature - Status of Individual Power Supplies
  - Status of Individual Cooling Fans - Visual and Resetable Audible Alarm
- 128 MB of Cache



STC7000 RACKMOUNT SOLUTION

- 3-Channel RAID 5 UW Controllers • 6 Hot-swappable Drive Bays
- 2 300 Watt N+1 Hot-swappable Redundant Power Supplies
- Sensor Panel Monitors: - Internal Temperature - Status of Individual Power Supplies - Status of Individual Cooling Fans - Visual and Resetable Audible Alarm

STC8000 RAID 5 SOLUTION

- 3-Channel RAID 5 UW Controllers • 8 Hot-swappable Drive Bays
- 2 300 Watt N+1 Hot-swappable Redundant Power Supplies
- Sensor Panel Monitors: - Internal Temperature - Status of Individual Power Supplies - Status of Individual Cooling Fans - Visual and Resetable Audible Alarm

STC2000 72GB Solution	STC2000 72GB Solution	STC2000 32GB Solution	STC7000 or STC8000 17GB Solution	STC7000 or STC8000 18GB Solution	STC7000 or STC8000 27GB Solution
Q: (8) 9.1GB 7200RPM UW HD	Q: (8) 8.1GB 10,000RPM UW HD	Q: (8) 4.3GB 7200RPM UW HD	Q: (4) 4.3GB 7200RPM UW HD	Q: (4) 4.5GB 10,000RPM UW HD	Q: (3) 9.1GB 7200RPM UW HD
$22289	$24132	$18867	$7671	$8253	$8240

SEE OUR WEBSITE FOR A COMPLETE LINE OF OUR DISK STORAGE SOLUTIONS

www.sagelec.com

1.800.989.3475

SAGE ELECTRONICS

The Intelligent Choice.

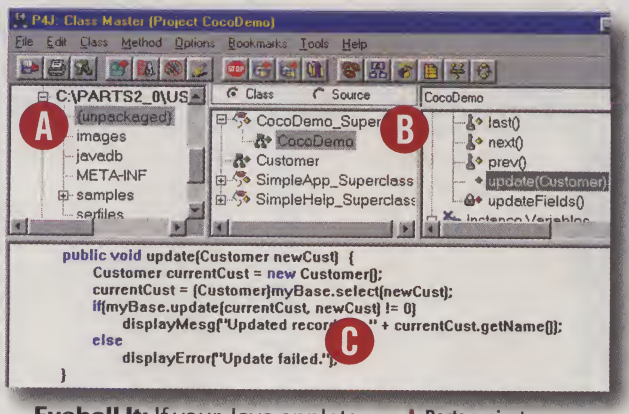
Circle 121 on reader service card.

Brew Your Own Java Applets

JavaBeans, CORBA, RMI, AFC.... With all of the "standards" percolating around Java, can any development tool hope to keep up? It seems impossible, but ObjectShare's Parts for Java 2.0 is an excellent attempt. It's the first visual development system with full support for JavaBeans, those nifty software snippets that make it easier to create Java applications or applets. It also supports Microsoft Application Foundation Classes (AFC)—a comprehensive collection of free Java class libraries that include prebuilt graphics and interface components.

Let's Get Visual Parts for Java 2.0 offers a visual designer for program building. Simply choose the components you want and drop them onto the designer window. Specify which events belong to which objects by using the simple flowchart. You can also use the designer to link your application to a JavaBean. For example, suppose your applet needs a spell-checker. No need to code one if there's a JavaBean component; simply link the app to the Bean. This is assuming, of course, that Beans become available.

The Class Master browser tool is a useful multiwindow application that lets you view, edit, and compile all the source code parts of the application, as well as keep track of all the methods and variables. If a problem shows up after compilation, use the included debugger to examine the values of variables at selected points. The debugger itself is written in Java, so it can run on any platform. Also included is a Delivery Assistant to help package and deliver all the components of your application. A version-control system would be helpful here to track your development, but none is included in this release.

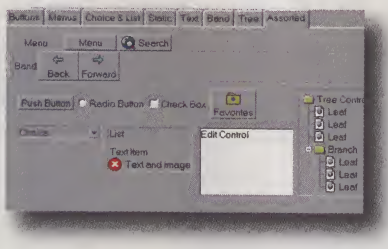


Eyeball It: If your Java applets crash and burn too often, check out ObjectShare's Parts for Java 2.0. It includes the great Class Master browser tool that lets you inspect the source of all your project files.

A. Parts projects are organized in familiar hierarchical trees.

B. Specific classes are easily viewed and managed.

C. Source code appears in the bottom window.



Free Classes: Microsoft's Application Foundation Classes provide a consistent interface for your Java apps.

Parts Is Parts Java's interface routine, the code that displays windows and buttons, is bare-bones at best. Developers are typically forced to build user interfaces from scratch, which often results in poorly designed programs. Parts for Java 2.0 includes Microsoft's AFC, a set of routines that simplifies interface creation. By installing these classes, developers can make simple calls to establish windows, create navigation bars, make dialog boxes, and so on. In essence, AFC components add many of the navigation and window features we've come to expect from an operating system. AFC components can be used with any application development tool that is compatible with Sun Microsystems' Java Development Kit 1.1. They'll be included with Internet Explorer 4.0 and are on the Microsoft Web site.

If you'd like a great visual interface builder and editor from a company intent on keeping up with the latest Java technologies, then ObjectShare's $149 Parts is for you. If you want an easy way to add a consistent look to your programs, check out Microsoft's AFC components; after all, they're free. JIM BURTON

FILEBOX

Microsoft Application Foundation Classes

★★★★

Verdict: Ready-to-use Java interface components at an unbeatable price—free.

Pros: Adds a consistent user interface to Java; compatible with any Java Development Kit–compliant development tool; included with Microsoft Internet Explorer 4.0; a real time-saver.

Cons: As of press time, many proposed components still aren't ready.

System Requirements: Java-compatible programming environment and the hardware relevant to the platform.

Free from www.microsoft.com/java
Microsoft
(800) 426-9400, (206) 882-8080
Reader Service No. 665

ObjectShare Parts for Java 2.0

★★★½

Verdict: A solid, visual approach to creating great Java content.

Pros: Supports several new standards; makes interface creation in Java a less time-consuming task; includes Microsoft's Application Foundation Classes, ready-to-use Java interface components.

Cons: No version-control support in this release; while it lets you add components, you need to be fluent in Java.

System Requirements: Windows 95 or NT, 16MB of RAM, 16MB of hard disk space, CD-ROM drive.

$149 est. street price
ObjectShare
(800) 888-6892, (408) 970-7280
Reader Service No. 664

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*



The HP 300 Series Palmtop PC
Featuring the widest screen so you can view information like you would on your desktop PC
VGA wide screen: 640 x 240 pixels
Direct print capabilities through an infrared connection
Wireless e-mail and Internet access via Type II PC Card Modem*
Fast and easy synchronization with your desktop PC
From $499†

The problem with most handheld PCs is that the screen isn't wide enou

To get the whole picture, see our quick link: www.hpresource.com/palmtop-3

*Optional accessory available at additional price. †Projected U.S. street price. Microsoft and Windows CE are U.S. registered trademarks of Microsoft Corporation. ©1997 Hewlett-Packard Company PPG450

HEWLETT® PACKARD

New! INTERNET: VitalSigns Software Net.Medic

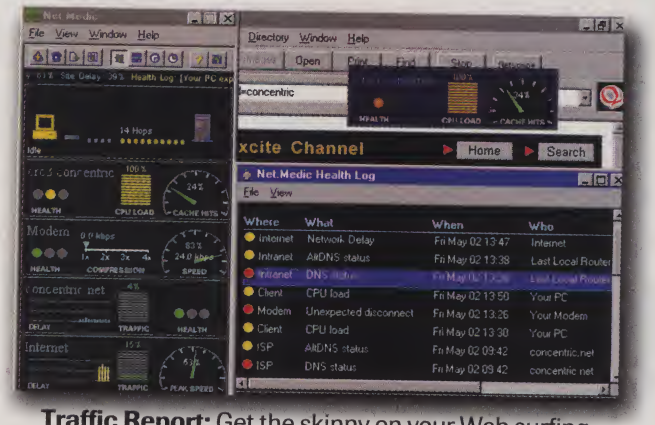
Keep Those Connections Alive

You click on a well-worn bookmark and, after a suitably annoying interval, get a message that goes something like "blah, blah, blah—network down." Is the problem the Web site? Server traffic on your ISP? Your PC configuration? It could be any of those, or an overloaded Internet backbone.

To figure out what's going on, check out VitalSigns Software Net.Medic. It monitors all the above and offers reports that help you analyze your Net sessions. For $49 it's a great way to point blame for poor Internet performance. Unfortunately, it does little to actually fix connection problems.

Net.Medic's dashboard includes up to ten panels that track just the elements that concern you. The Activity pane displays the vital signs of your Internet data path from desktop to Web-site server and the routers in between. Other panes show your modem's data-transfer rate, the current load on your PC, and the connect time in daily, weekly, or monthly increments. Net.Medic also monitors traffic speed on the Internet, your intranet, your ISP, and the throughput and load on a Web site's server.

While it can't do much to fix a slow Internet connection, VitalSigns Net.Medic provides the answers to your connection's ills. **MIKE HOGAN**



Traffic Report: Get the skinny on your Web surfing conditions with VitalSigns Software Net.Medic.

FILEBOX

Net.Medic

★★★★

Verdict: At last, a way to know exactly what's going on with your Internet connection. Now if it could just fix the problem too.

Pros: Tracks every aspect of your Net hookup and data path.

Cons: The dashboard is a bit large and doesn't scale; can't actually fix your connection ills.

$49 est. street price
VitalSigns Software
(888) 984-8259, (408) 980-8844
Reader Service No. 666

Transparent Language Easy Translator

Sites That Speak Your Language

We'd like to teach the world to sing . . . no, forget that. We'd like it if everybody spoke the same language on the Web. But since we can't have that, we'll take Easy Translator from Transparent Language.

This $49 program gives you a good general English translation of French, Spanish, and German Web sites as you browse. It works in your browser and has a straightforward control bar that lets you choose from basic options. Load a supported foreign-language Web page, select the translation you want, and click on the Web translation button. A few seconds later the translated version pops up in your browser, working just like the original page, links and all.

You can convert in any direction between English, French, Spanish, and German. There are two dictionaries for each language—one that's Net-centric and one that's specific to the language. The product also translates straight text documents and e-mail messages.

The software's translations aren't perfect—you can expect accuracy between 60 and 70 percent. And Easy Translator reads text only; it can't translate words painted on bitmap graphics. Even so, Easy Translator opens doors previously closed by a language barrier. The translations give you enough information to wring something useful out of most sites. **SCOT FINNIE**



Parlez-Vous Web? Easy Translator tackles any French, German, or Spanish Web site and quickly translates it to English.

FILEBOX

Easy Translator

★★★★

Verdict: Your personal translator for the Web's foreign-language sites.

Pros: Fast; easy to use, translates and displays right in your browser window.

Cons: Translations are only 60 to 70 percent accurate.

System Requirements: Windows 3.1,95, or NT; 386 CPU; 8MB of RAM; 15MB of hard disk space; Navigator, Internet Explorer, or Mosaic browser.

$49 est. street price
Transparent Language
(800) 567-9619, (603) 456-2230
Reader Service No. 667

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*



The new Intel® Pentium® processor-based HP Vectra V and X Series PCs come with HP TopTOOLS:

Remotely upgrade the BIOS of multiple PCs* simultaneously

Remotely set DMI attributes on multiple PCs simultaneously

Remotely change administration BIOS passwords on multiple PCs simultaneously

Remotely collect asset data from any DMI-enabled** PC

FROM $992†

How would you upgrade the BIOS of 250 PCs?

Find out how at our quick link: www.hpresource.com/vectra-4

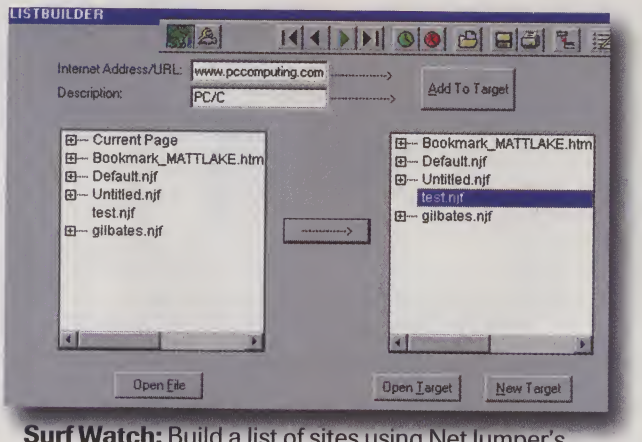
HEWLETT® PACKARD

*Select V and X Series PCs only. **Based on DMI 1.0. †Starting U.S. street price for HP Vectra VE Series 3. Monitor not included. Price includes HP DeskDirect J3239A LAN adapter card. The Intel Inside logo and Pentium are registered trademarks of Intel Corporation. ©1997 Hewlett-Packard Company PPG438

Make Bookmarks Come to You

Do your wrists ache after a morning browse of your favorite news sites? Put away the arm braces and painkillers and spend $20 on NetJumper 2.5 instead.

The plug-in turns Web bookmarks into slide shows. With a NetJumper list, instead of choosing from a collection of bookmarks or Favorites, you browse sites by pushing buttons on a toolbar. At any stage during your NetJumper session you can click on an interesting link, browse around a bit, and resume your NetJumper session.



Surf Watch: Build a list of sites using NetJumper's List Builder, and sit back as the pages scroll by.

Using NetJumper lists is much easier than using Microsoft Internet Explorer's Favorites or Netscape Navigator's bookmarks. Compiling your own lists is trickier, however. The program generates a big NetJumper list of your bookmarks during installation. To make smaller, more usable lists you must use the List Builder module, a rudimentary and awkward tool.

List Builder deserves a knock for usability flaws. But NetJumper is a one-of-a-kind solution to the problems associated with constantly checking Web sites for new information. If you like to browse your favorite sites and wish you could keep both hands free while you do it, NetJumper is the only show in town. **MATTHEW J. LAKE**

FILEBOX

NetJumper 2.5

★★★

Verdict: An easy and entertaining way to surf your bookmarked sites, hands-free.

Pros: The first automated slide-show plug-in.

Cons: Setting up and editing the site list could be easier.

System Requirements: Windows 95 or NT, any browser, 1.6MB of hard disk space.

$20 est. street price
NetJumper
(800) 658-6737, (248) 353-5555
www.netjumper.com
Reader Service No. 668

Pretty Good Privacy PGP for Personal Privacy 5.0

Send Secure E-mail

You wouldn't let a stranger read your paper mail. So why take a risk with e-mail? With Pretty Good Privacy's PGP for Personal Privacy 5.0, it's easy to encrypt and secure your e-mail. And for only $50 from the Web site, it's priced right.

PGP's encryption for e-mail messages and attachments works with nearly any e-mail package. For the truly paranoid, PGP includes a second encryption algorithm, DSS/Diffie-Hellman, an option to PGP's standard RSA algorithm. PGP sports a new key-generation wizard, which quickly creates your private and public encryption keys, and posts your public key on a server so others can send you encrypted messages.



Lock and Key: Stop snoopers from reading your e-mail with PGP for Personal Privacy 5.0.

For now PGP lacks controls that corporations prefer, like corporate super-keys and privilege controls. It also doesn't currently provide any support for S/MIME, the emerging e-mail encryption standard.

The program's Internet security will depend on evolving standards and technologies. For now PGP for Personal Privacy gets the job done in a convenient fashion and at the right price. PGP's excellent integration with the popular e-mailer Qualcomm Eudora Pro makes it easy to automate encryption. And at press time the company released plug-ins for Microsoft Exchange and Outlook and is working on a plug-in for Lotus Notes. Stay tuned. **SCOT FINNIE**

FILEBOX

PGP for Personal Privacy 5.0

★★★★

Verdict: A smart and affordable way to keep your e-mail safe from prying eyes.

Pros: Good integration with Eudora Pro; new encryption-key creation wizard; priced right.

Cons: Lacks S/MIME support.

Competition: Netscape Messenger and Microsoft Outlook, among others, have announced some version of S/MIME message encryption.

$50 from www.pgp.com
$60 est. street price
Pretty Good Privacy
(888) 747-3011, (415) 572-0430
Reader Service No. 669

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

FREE
WITH PURCHASE
GRAPHICS • PLUG-INS
LEARNING CD's
@ www.adobe.com/actionpack/print.html

It's easy to see how

ADOBE® PHOTOSHOP®

improves your

WEB SIGHT.



www.dia.org



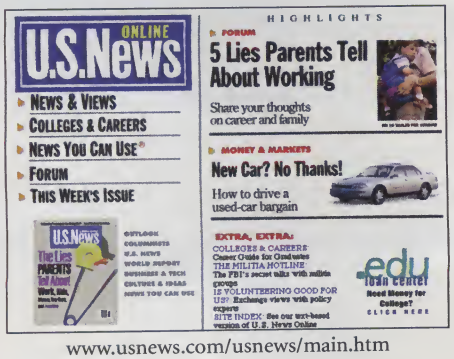
www.porsche-usa.com



www.faoschwarz.com



www.ebauer.com



www.usnews.com/usnews/main.htm



www.americanfunds.com

Seeing is believing. Adobe® Photoshop® 4.0 is the world's leading image editing tool for web graphics. The sites on your left are proof.



With our new Actions feature, U.S. News can easily batch process hundreds of images. The Detroit Institute of Arts appreciates how Photoshop supports all the most popular web files, like PNG, Progressive JPEG, GIF89A and PDF. And to make the creation of great-looking sites easier, award winners like Porsche make good use of all our precision tools, including Grids and Guides. For more information, contact us at 1-800-492-3623, offer code 35613, or visit www.adobe.com.

Adobe

Free Adobe ActionPack with purchase of Adobe Illustrator, Photoshop or PageMaker. Offer good on new retail units only, while supplies last. Not valid on upgrades or volume licenses. Not valid with any other offer. Adobe, the Adobe logo and Photoshop are trademarks of Adobe Systems Incorporated. FAO Schwarz website designed by Avalanche Systems. All other trademarks are property of their respective owners. © 1997 Adobe Systems Incorporated. All rights reserved.

Circle 266 on reader service card.



IBM Business Partner™

* While supplies last and by returning your registration. IBM, Business Partner and Solutions for a small planet are trademarks of International Business Machines

the "our finance department deals with all the paperwork. Unfortunately the finance department is also me" solution

The IBM No More Paperwork Solutions.

Nobody sets up a business because they like doing paperwork. All too often being your own boss means long hours spent shuffling forms instead of chasing dreams.

IBM accounting solutions can automate tasks from accounts receivable and payable to inventory management. The result? A clear picture of your overall cash flow and improved cash management. And they run on the most popular operating systems out there. So you can get down to business, without disrupting business. We can also help finance your acquisition with flexible and attractive leases.

Buy any IBM accounting solution and get a Dun & Bradstreet "Business Solution in a Box™"(a $2,500 value, absolutely free).*

Call IBM at 1 888 IBM-5800 and we'll send you a free "Guide to Doing Business on the Internet." We'll also put you in touch with an IBM Business Partner,™ an independent expert who can provide you with accounting solutions best suited to your business. For more information, visit us at www.businesscenter.ibm.com

IBM

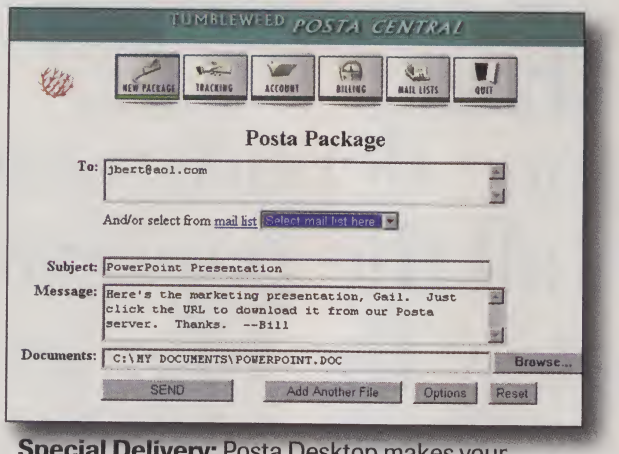
Solutions for a small planet™

Corporation in the United States and/or other countries. Business Solution in a Box is a trademark of the Dun & Bradstreet Corporation. © 1997 IBM Corp. All rights reserved.

Guaranteed Document Delivery

Internet e-mail is handy for sending documents and images to your clients and colleagues. That is, when your e-mail actually works. Truth be told, thanks to gateways and firewalls, the odds of a file attachment reaching its destination aren't very good. Now there's a better way: Tumbleweed Software's Posta, a document delivery system that provides a safe, secure way to send e-mail attachments.

Posta is a client-server application that has several components including Posta Desktop, a Windows program that runs separately or integrates with popular Web browsers such as Netscape Navigator and Microsoft Internet Explorer. A Navigator user, for instance, can connect to a Posta server, address e-mail to one or more recipients, attach multiple files, and send the message. The Posta server then sends e-mail to the recipients, informing them that they can retrieve the files at the URL included in the body of the message.



Special Delivery: Posta Desktop makes your documents accessible to anyone you choose.

Designed for large enterprises, Posta is expensive: $3,999 for 20 Posta Desktop accounts and the server, plus $189 for each additional account. However, if your files keep getting lost in the murky ether of the Internet, Posta is an innovative way to guarantee delivery. JEFF BERTOLUCCI

FILEBOX

Posta

★★★★

Verdict: A secure and reliable way to guarantee that anyone will receive your electronic documents.

Pros: Works within popular browsers; e-mail recipients don't need Posta Desktop to retrieve files.

Cons: Very expensive; requires dedicated Posta server.

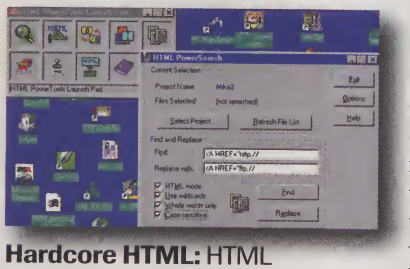
$3,999 for 20 accounts and server; $189 for each additional account.
Tumbleweed Software
(415) 369-6790
Reader Service No. 670

Opposite Software HTML PowerTools 1.6

Bulk Up Your HTML Power

If you consider yourself bilingual because you speak HyperText Markup Language, you'll love Opposite Software's HTML PowerTools. PowerTools provides a handful of shortcuts to help the experienced Webmaster manage multipage sites.

These are production-level tools: PowerAnalyzer checks your code syntax and identifies broken links; PowerSearch lets you search and replace not only text but also HTML syntax. Things get more obscure after that. Want to customize the rules by which HTML code operates? PowerTools does that and throws in a quick HTML reference tag as well—a sort of programmer's dictionary. There is an image scanner that resizes pages with images throughout your site and another tool for fixing mismatched HTML tag pairs.



Hardcore HTML: HTML PowerTools 1.6 includes dozens of utilities, like search and replace.

HTML PowerTools adds features to all the popular Web page publishers. But before you wield any of the tools, you must first create a new project, give it a code name and directory, and indicate files to include and files to exclude. This is on top of the HTML-aware word processor and HTML page editor files you're already juggling.

This won't simplify a Web rookie's life, nor will the help files' lack of tutorials, wizards, or plain English. That said, the Meta Manager might make the product worth the price and the trouble; it lets you modify pages so you get linked to every major search engine on the Web. MIKE HOGAN

FILEBOX

HTML PowerTools 1.6

★★★

Verdict: Nifty utilities for experienced Webmasters.

Pros: Big programmer shortcuts.

Cons: No tutorial, no wizards, no effective help for newbies.

Competition: On a basic level, Microsoft FrontPage 97 and Netscape Navigator Gold 3.1 compete with PowerTools, but neither can match its powerful advanced features.

$60 from www.opposite.com
$80 direct price for CD-ROM
Opposite Software
(888) 596-8337, (602) 596-8332
Reader Service No. 671

Guide to the Ratings: ★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

New! INTERNET: Software Publishing Corporation ActivePresenter

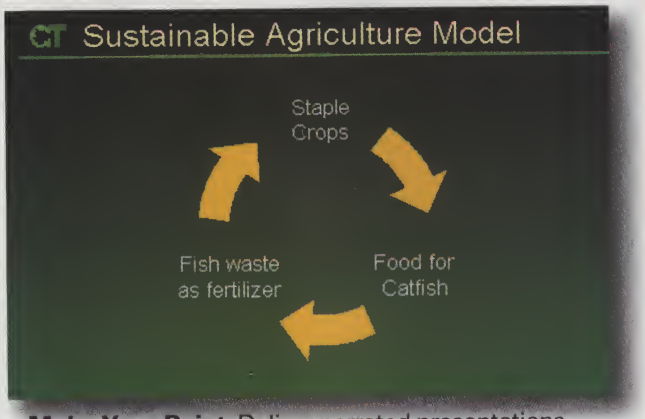
Present Yourself to the Web

Long-distance presentations are like long-distance relationships: They never work. Often they fail because someone forgot to overnight your handouts. That's where Software Publishing Corporation's (SPC) ActivePresenter can help. Not only does this clever presentation graphics package let you create colorful, professional-looking slides in minutes, it also lets you conduct live presentations on the Web.

In ActivePresenter you work either in outline mode, which is handy for jotting down ideas, or preview mode, in which you edit slide templates by replacing placeholder terms with your own words.

Using ActivePresenter your audience has to install SPC's WebShow 2.0, which they can download for free from SPC's Web site (www.spco.com). To conduct live presentations with narration, you'll need a copy of Progressive Networks' RealAudio Encoder on your PC and RealAudio Server on your Web site.

ActivePresenter's prices vary: For $50, up to three people can view a Web presentation at any given time; for $100 you can have an unlimited number of simultaneous viewers. Bottom line? For long-distance presentations it's a handy tool at any price. JEFF BERTOLUCCI



Make Your Point: Deliver narrated presentations over the Net with ActivePresenter.

FILEBOX

ActivePresenter

★★★½

Verdict: Cancel the flight—you can now deliver long-distance presentations via the Web.

Pros: Easy for beginners to create presentations; transfers presentations to your Web site; lets you conduct live narration.

Cons: WebShow 2.0 plug-in required to view presentations.

$50 for three viewers, $100 for unlimited viewers, est. street price
Software Publishing Corporation
(800) 557-3743, (408) 537-3000
Reader Service No. 672

IBM Business Partner

The solution is here.

Looking for help? IBM Business Partners are independent experts who can help you find the right mix of technology, support, price and financing. And there are tens of thousands worldwide (if you're counting). To find one who specializes in your line of business, call 1 888 IBM-2992, ext. 9999.

The IBM logo is a registered trademark and the IBM Business Partner emblem is a trademark of International Business Machines Corporation and are used together under license. © 1997 IBM Corp. All rights reserved.

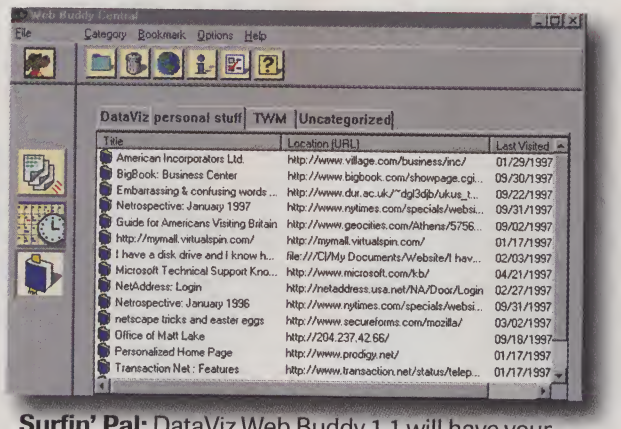
Offline Browsing and Beyond

The time you're not browsing the Web is wasted bandwidth time. Rather than twiddling your thumbs online, you can have all your Web pages ready and waiting for you with DataViz's Web Buddy 1.1.

Web Buddy is a recent addition to the growing group of offline browsers that cover all the basics. You can save individual pages, save pages to which the designated page links, and even capture whole sites or directories within sites. But Web Buddy has a couple of handy tricks: Unlike the others, it can also recreate the text and formatting of a Web page (and its graphics if you choose) in your favorite word processing format.

The program also features a bookmark manager that uses tabbed categories instead of Netscape's directory tree format and Microsoft Internet Explorer's folders.

Although you can master the other components of Web Buddy in minutes, the program is nothing special—particularly considering its high price. Still, if the ability to export Web pages into word processors is compelling or if other offline browsers haven't caught your fancy, it's worth considering. Not convinced? Download the working trial version from DataViz's site (www.dataviz.com). MATTHEW J. LAKE



Surfin' Pal: DataViz Web Buddy 1.1 will have your Web pages downloaded and waiting for you.

FILEBOX

Web Buddy 1.1

★★★

Verdict: A quick way to grab data from the Web.

Pros: Scheduled and push-button capture of Web site data or whole Web sites.

Cons: The bookmark manager doesn't offer subcategories; higher price than many competing products.

$40 est. street price
DataViz
(800) 733-0030, (203) 268.0030
Reader Service No. 673



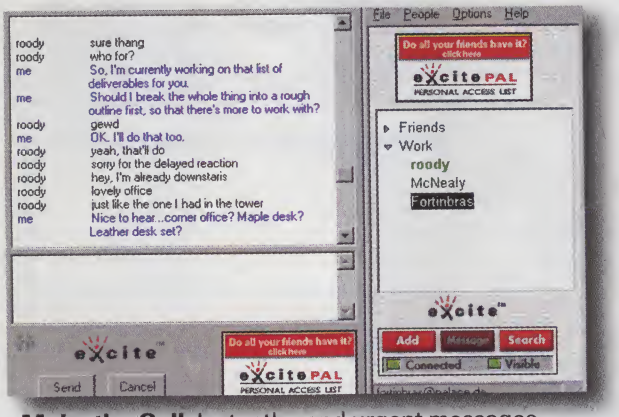
Send Instant Web Messages

You're away from the office. Your partner's on the phone. You have to get information from him *now*. A note that pops onscreen with a beep is a great attention-getter and it lets you exchange data fast. Web browsers don't offer such a feature, but Excite's Personal Access List (PAL) comes close.

With PAL you can hold quick typed conversations with any colleague—on two conditions: They must be connected to the Net with a TCP/IP connection and have PAL installed. And since the software is free and downloads quickly, it's the kind of utility that both Windows and Macintosh users can adopt.

You fill in the two categories of contacts (Friends and Work) by searching Excite's roster of subscribers. PAL lets you block out any of your contact groups while leaving the channels open for others.

PAL isn't perfect: You can't leave a message for someone if they're not online or chat with more than one person (as you can with ICQ—download via www.icq.com). You can't use the software to send files or share whiteboard information either. And to save conversations for future reference, you must use the clipboard to cut and paste text. But PAL is much easier to set up and use than ICQ. **MATTHEW J. LAKE**



Make the Call: Instantly send urgent messages through the Net with Excite's Personal Access List.

FILEBOX

Personal Access List

☆☆☆

Verdict: Quick-and-easy text-based chat via any Web connection.

Pros: Instant messages through the Net.

Cons: No conference room feature for group discussions; hard to save conversations.

Free download from
pal.excite.com
Excite
(415) 568-6000
Reader Service No. 674



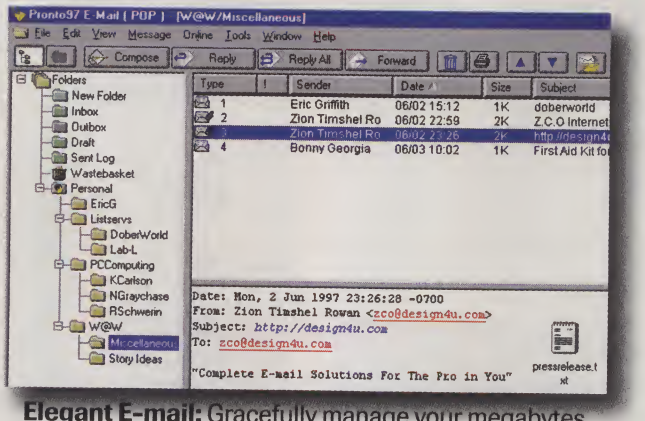
Get Your E-mail in Sync

Is your free e-mail software no longer up to managing the daily deluge of messages? Enlist the aid of Pronto97 from CommTouch Software, a professional e-mail client with all the tools you need to tame your overflowing in-box.

Pronto97 is one of the first e-mail clients to be both POP3 and IMAP4 compliant. Provided your ISP or office e-mail account uses IMAP4, Pronto97 lets you manage e-mail messages both on the server and your own machine. A synchronization tool ensures that folders in both places contain the same messages.

Even if you don't use IMAP4, Pronto97's simple interface has a lot to like. Unlimited folder nesting lets you sort messages into groups of folders. Customized filtering rules and scheduling features let you autofile, autodelete, or autorespond to messages.

A sound or blinking taskbar icon announces new messages, but if you have numerous folders, finding them can be a chore. User-created folders sport an envelope icon after receiving new mail, but you must expand the entire tree to find the icons. All in all, however, CommTouch Software Pronto97 has all the muscle you need to keep your e-mail in tip-top shape. BONNIE L. GEORGIA



Elegant E-mail: Gracefully manage your megabytes of incoming e-mail with CommTouch's Pronto97.

FILEBOX

Pronto97

★★★★

Verdict: All the tools you need to tame your overflowing in-box.

Pros: Efficient drag-and-drop interface; QuickView feature for file attachments; built-in antivirus module.

Cons: Multiple POP account access is clumsy; new message notification is limited; ISP support limited to IMAP4.

$59 est. street price
CommTouch Software
(800) 638-6824; (408) 245-8682
Reader Service No. 675

A Great Review is Worth Repeating

Almost nothing influences buyers in the computer market as much as a great product review, particularly one in PC Computing. That's because computer product buyers rely on these reviews to help them make informed purchase decisions. They know that our labs, writers and editors can be trusted to be thorough, fair and impartial in their testing and reporting. For a computer product marketer a great review is almost priceless.

Its Value Increases With Use
Reprints of your review are an invaluable selling tool for your product and an important image builder for your company. An objective, third party product evaluation will be read, and trusted, by far more people than any regular product literature, direct mail, press release or sales letter. Think of all the ways you can take advantage of reprints:

- Use them in sales proposals
- Hand them out at trade shows
- Send them to your mailing list
- Provide them to distributors
- Add them to a press release or a mailing to your stockholders.

And, if you customize your reprint— with a special cover, highlighting, an ad, sales office listings, etc.— the value increases even more.

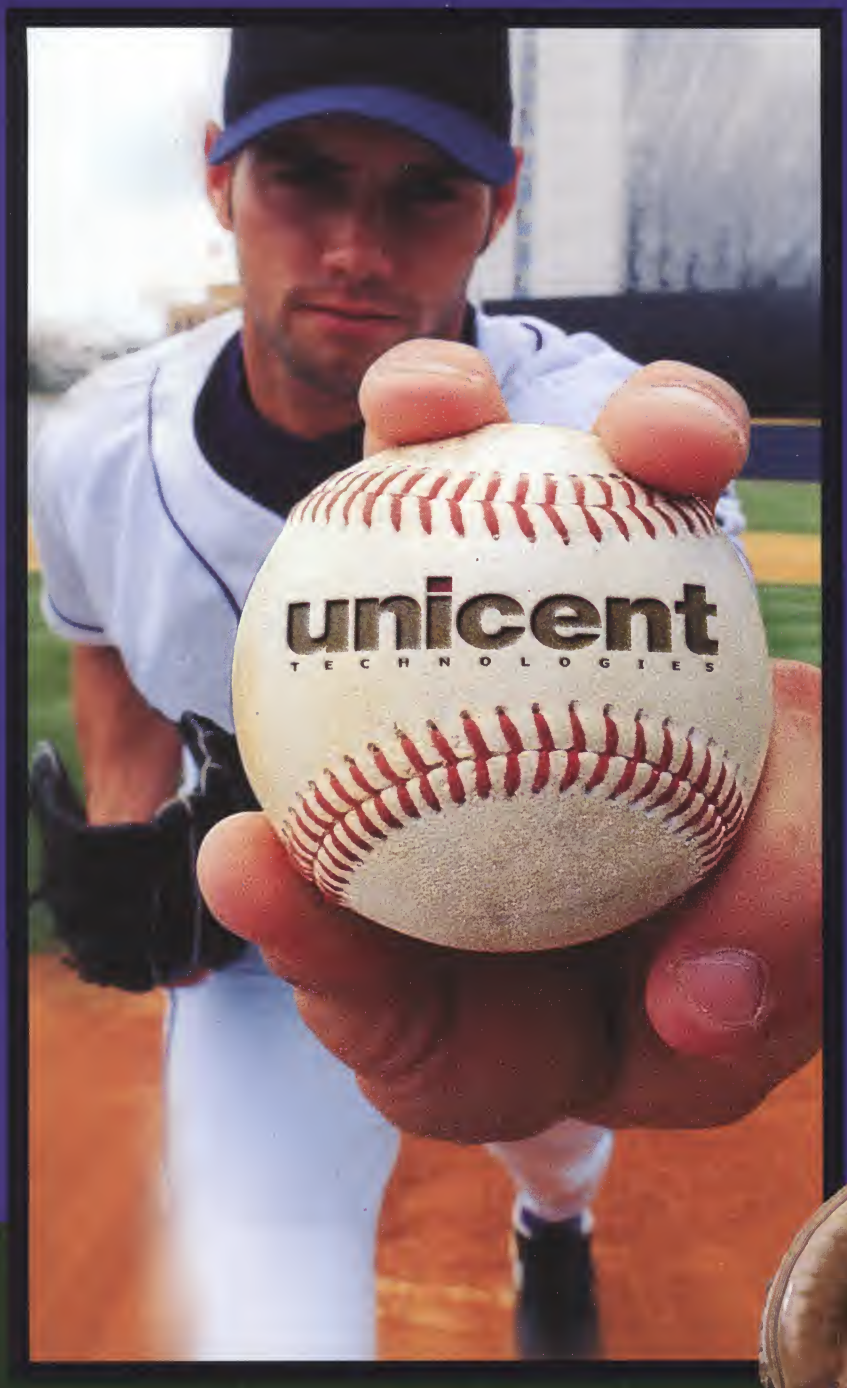
Get the most value from your PC Computing review. Call Ziff-Davis Reprints today at
800-825-4237.

REPRINTS REPRINTS REPRINTS REPRINTS REPRINTS REPRINTS REPRINTS REPRINTS REPRINTS REPRINTS REPRINTS REPRINTS

PCComputing

HEY GATEWAY, DELL & MICRON...





HERE COMES THE PITCH...

It's a whole new ball game in personal computers today, as Unicent Technologies steps up to the plate with a dazzling new line of computers, boasting power, technology and user-friendliness.

Backed by seven years of making and servicing computers for homes, schools and businesses, Unicent's new line-up is loaded - Pentium II technology, leading-edge peripherals, sophisticated support and competitive prices. And if all that sounds as impressive as the other guys, you've got the right idea!

Plus, we bring a special way of doing business to every product we sell to make your relationship with your Unicent computer the most satisfying it can be - right out of the box.

- *It is easy to set up, easy to understand, easy to use.*
- *It brings you the latest technology and league-leading systems for its class.*
- *It is designed to protect your investment by allowing you to easily change and upgrade your computer as you grow with it.*
- *It gives you one of the best guarantees available.*

You will find your Unicent computer so well-crafted that you should never need service. But if you do, you can count on us 24 hours a day, every day of the year, to be there with the technical support you need.

We pledge this to you, not only because we believe that trust and partnership are simply good business, but also because it's the way we ourselves would like to be treated. On the next three pages, you'll see how we've loaded the bases. Now, it's your turn at the plate.



THERE'S A NEW TEAM IN TOWN.

LEAGUE-LEADING SYSTEMS

UNICENT AVANTA 266XLP

$2899 *As Low as $101/mo.

- Intel® 266MHz Pentium® II Processor w/512KB Cache
- 64MB SDRAM [up to 384MB On-Board]
- Tool-Free Tower or Desktop Case
- Ultra DMA/33 IDE controller
- 6.5GB Ultra ATA IDE Hard Drive <10ms
- 17" Flat Screen NI Monitor
- *Matrox Millennium II 8MB WRAM Video*
- 24x Toshiba EIDE CD-ROM
- 3.5" Floppy Drive
- Ensoniq™ PCI Wavetable Sound Card
- 2 USB Ports, Amplified Speakers
- *56K X2™ Technology or K56Flex* - Voice/Fax Modem, Speaker Phone
- Microsoft® IntelliMouse®
- 104-key Win'95 Enhanced Keyboard
- MS Windows '95 CD
- MS Office '97 CD, Internet start-up kit
- 5-Year Parts, 1 Year On-Site Warranty

***AVANTA 233XLP*.....$2779**

MMX™ intel inside pentium® II PROCESSOR

• Designed with Intel's 440LX Chipset - Creating the ultimate performance for the latest power hungry applications. This new chipset provides support for ECC RAM, AGP [accelerated graphics port], OnNow, SDRAM, and Ultra DMA/33 Hard Drive protocol, giving users the latest technology available.

AGP ACCELERATED GRAPHICS PORT READY SYSTEMS

• Featuring Matrox Millennium II - The next revolution in graphics technology is here today. Matrox has once again redefined graphics technology with the Millennium II's new MGA-2164W processor. This sixth generation of the MGA chip is a completely new design of the industry standard 64-bit graphics processor and is complemented by a fast 250MHz RAM DAC and powerful dual-ported WRAM memory. The new Matrox Millennium II offers superior graphics performance for the professional user, delivering optimum acceleration in ultra high resolutions such as 1920 x 1200.

UNICENT TITANA G-233XP

$2149 *As Low as $75/mo.

- Intel 233MHz Pentium® Processor w/MMX™
- 64MB SDRAM
- 512KB Pipelined Burst Cache, Flash BIOS
- Tool-Free Tower or Desktop Case
- Ultra DMA/33 IDE controller
- 4.3GB Ultra ATA IDE Hard Drive <10ms
- 17" Flat Screen .28 NI Monitor
- *Matrox Millennium II 4MB WRAM Video*
- 24x Toshiba EIDE CD-ROM
- 3.5" Floppy Drive
- Ensoniq™ PCI Wavetable Sound Card
- 2 USB Ports, Amplified Speakers
- *56K X2™ Technology or K56Flex* - Voice/Fax Modem, Speaker Phone
- Microsoft® IntelliMouse®
- 104-key Win'95 Enhanced Keyboard
- MS Windows '95 CD
- MS Office '97 CD, Internet start-up kit
- 5-Year Parts, 1 Year On-Site Warranty

***TITANA G-200XP*.....$2049**

***TITANA G-166XP*.....$1949**

MMX™ intel inside pentium® PROCESSOR

• Designed with Toshiba's 24x Max CD-ROM Drive - Toshiba's new 12x to 24x Max CD-ROM Drive delivers the fastest data transfers possible. The combination of the drive's high transfer speed and the industry's fastest access time of 90ms earns its high performance classification. The new 24x-Max CD-ROM drive sustains maximum data transfers of 3.6MB/sec supported by burst rates of 16.7MB/sec in both PIO mode-4 or DMA transfer mode-2. For the quickest access to data, the drive supports industry leading 85ms random seek and 90ms random access times. To heighten its performance specifications, the drive features a 256KB buffer.

• Comes with Quantum Fireball™ Hard Drive, featuring - An advanced drive system, to keep pace with future technology. Highly reliable and extremely fast, the Ultra DMA/33 interface doubles the current burst data transfer rates to 33MB/second to handle the new generation of advanced operating systems, realtime video, multimedia applications and internet capabilities.



Unicent Technologies is proud to showcase our all-star line-up! It is our mission to offer you the latest leading-edge technology available to keep you ahead of the game and swinging for the fences. Unicent has stepped up to the plate, by forming strategic *relationships* with the industry leaders such as Intel, Matrox, Toshiba, Quantum, US Robotics to name just a few, so we can provide our customers with the quality equipment necessary to be a Major League contender. So come on and join the winning team! Unicent Technologies!



Unicent Technologies would like to offer sincere gratitude to the p

The Intel Inside Logo and Pentium are registered trademarks and M



SEARCHING FOR A GRAND SLAM SYSTEM? INTRODUCING: THE TOP OF OUR LINEUP.

ALL STAR SYSTEMS

Toshiba DVD-ROM-The next multimedia revolution is at Unicent with the Toshiba DVD-ROM and MPEG-2 hardware compression board for .....***$399*** [installed]

US Robotics Bigpicture™ Video Kit-A high quality color camera with built-in microphone for true videophone capability. Video Capture card pulls images from home movies or VCR. Full-Featured 33.6Kbps voice/video faxmodem upgradable to X2™ technology. Features an extensive selection of videophone, VideoFun and online communications software.....***$369*** [installed]

unicent
TECHNOLOGIES

We put the personal back into personal computers.

ayers and staff of the Akron Aeros Baseball organization.
MX is a trademark of Intel Corporation

A TRULY ALL-STAR LINEUP

UNICENT AVANTA

The Quickest, Most Advanced Operation Available.



AVANTA 266XLS

$3599 *Business Lease As Low as $124/mo.

- Intel® Pentium II 266MHz processor
- *64MB SDRAM*, Intel® 440LX Chipset
- 512KB Pipelined Burst Cache, Flash BIOS
- Tool-Free Tower or Desktop Case
- Adaptec Ultra Wide SCSI controller
- 4.3GB Ultra Wide SCSI Hard Drive 7200RPM
- 15x Toshiba SCSI CD-ROM • 3.5" FDD
- Matrox Millennium II 8MB WRAM Video
- Ensoniq™ PCI Wavetable Sound Card
- *56K X2™ Technology or K56Flex* -Voice/Fax Modem, Speaker Phone
- 2 USB, Amplified Speakers
- Microsoft® IntelliMouse®
- 104-key Win'95 Enhanced Keyboard
- MS Windows NT 4.0 Workstation
- MS Office '97 CD, Internet start-up kit
- 5-Year Parts, 1 Year On-Site Warranty
- 17" Flat Screen .28 NI Monitor

AVANTA 233XLS **$3479**

AVANTA 266XLA

$2349 *Business Lease As Low as $82/mo.

- Intel® Pentium II 266MHz processor
- *32MB SDRAM*, Intel® 440LX Chipset
- 512KB Pipelined Burst Cache, Flash BIOS
- Tool-Free Tower or Desktop Case
- Enhanced IDE controller
- 4.3GB Ultra ATA IDE Hard Drive <10ms
- 24x Toshiba EIDE CD-ROM • 3.5" FDD
- Matrox Mystique 220 4MB SGRAM Video
- Ensoniq™ PCI Wavetable Sound Card
- *56K X2™ Technology or K56Flex* -Voice/Fax Modem, Speaker Phone
- 2 USB, Amplified Speakers
- Microsoft® IntelliMouse®
- 104-key Win'95 Enhanced Keyboard
- MS Windows '95 CD
- MS Office '97 CD, Internet start-up kit
- 5-Year Parts, 1 Year On-Site Warranty
- 15" Flat Screen .28 NI Monitor

AVANTA 233XLA **$2229**

UNICENT TITANA

Optimum Power, Speed and Superb Manipulation



TITANA G-233XS

$2499 *Business Lease As Low as $87/mo.

- Intel® Pentium 233MHz processor w/MMX™
- *64MB SDRAM*, Intel® 430TX Chipset
- 512KB Pipelined Burst Cache, Flash BIOS
- Tool-Free Tower or Desktop Case
- Ultra DMA/33 IDE controller
- 6.5GB Ultra ATA IDE Hard Drive<10ms
- 24x Toshiba EIDE CD-ROM • 3.5" FDD
- Matrox Millennium II 8MB WRAM Video
- Ensoniq™ PCI Wavetable Sound Card
- *56K X2™ Technology or K56Flex* -Voice/Fax Modem, Speaker Phone
- 2 USB, Amplified Speakers
- Microsoft® IntelliMouse®
- 104-key Win'95 Enhanced Keyboard
- MS Windows '95 CD
- MS Office '97 CD, Internet start-up kit
- 5-Year Parts, 1 Year On-Site Warranty
- 17" Flat Screen .28 NI Monitor

TITANA G-200XS **$2399**
TITANA G-166XS **$2299**

TITANA G-166XL

$1649 *Business Lease As Low as $57/mo.

- Intel® Pentium 166MHz processor w/MMX™
- *32MB SDRAM*, Intel® 430TX Chipset
- 512KB Pipelined Burst Cache, Flash BIOS
- Tool-Free Tower or Desktop Case
- Ultra DMA/33 IDE controller
- 3.2GB Ultra ATA IDE Hard Drive<10ms
- 24x Toshiba EIDE CD-ROM • 3.5" FDD
- Matrox Mystique 220 4MB SGRAM Video
- Ensoniq™ PCI Wavetable Sound Card
- *56K X2™ Technology or K56Flex* -Voice/Fax Modem, Speaker Phone
- 2 USB, Amplified Speakers
- Microsoft® IntelliMouse®
- 104-key Win'95 Enhanced Keyboard
- MS Windows '95 CD
- MS Office '97 CD, Internet start-up kit
- 5-Year Parts, 1 Year On-Site Warranty
- 15" Flat Screen .28 NI Monitor

TITANA G-233XL **$1849**
TITANA G-200XL **$1749**

UNICENT TITANA

Exceptional Value for Small Offices and Homes



TITANA 200VLS

$1549 *Business Lease As Low as $54/mo.

- Intel® Pentium 200MHz processor
- *32MB SDRAM*, Intel® 430TX Chipset
- 512KB Pipelined Burst Cache, Flash BIOS
- Tool-Free Tower or Desktop Case
- Ultra DMA/33 IDE controller
- 2.1GB EIDE IDE Hard Drive
- 24x Toshiba EIDE CD-ROM • 3.5" FDD
- Matrox Mystique 220 4MB SGRAM Video
- Ensoniq™ PCI Wavetable Sound Card
- *56K X2™ Technology or K56Flex* -Voice/Fax Modem, Speaker Phone
- 2 USB, Amplified Speakers
- Microsoft® IntelliMouse®
- 104-key Win'95 Enhanced Keyboard
- MS Windows '95 CD
- Internet start-up kit
- 5-Year Parts, 1 Year On-Site Warranty
- 15" Flat Screen .28 NI Monitor

TITANA 166VL **$1499**

TITANA 166VA

$1299 *Business Lease As Low as $50/mo.

- Intel® Pentium 166MHz processor
- 16MB EDO RAM, Intel® 430TX Chipset
- 512KB Pipelined Burst Cache, Flash BIOS
- Tool-Free Tower or Desktop Case
- Ultra DMA/33 IDE controller
- 1.2GB EIDE IDE Hard Drive
- 24x Toshiba EIDE CD-ROM • 3.5" FDD
- Matrox Mystique 220 2MB SGRAM Video
- 3COM 10/100m bps
- 2 Universal Serial Bus
- Microsoft® IntelliMouse®
- 104-key Win'95 Enhanced Keyboard
- MS Windows '95 CD
- 5-Year Parts, 1 Year On-Site Warranty
- 15" Flat Screen .28 NI Monitor

TITANA 200VA **$1349**
TITANA 133VA **$1279**

MOST SYSTEMS WILL BE SHIPPED IN 48HRS

CONFIGURE YOUR UNIQUE SYSTEM ANY WAY YOU WANT WITH ANY OF THESE GREAT OPTIONS:

- Iomega Zip Drive IDE int. w/ 100MB Cartridge **$99**
- Iomega Jaz Drive SCSI int. w/ 1GB Cartridge **$299**
- 3.2GB Travan Tape Backup w/ Tape **$189**
- APC Back-UPS PRO 280 ..... **$149**
- APC Back-UPS PRO 650 ..... **$299**
- For Microsoft® Natural Keyboard add **$49**
- For Sound System w/ Subwoofer add **$99**
- For Windows NT 4.0 Workstation add **$99**
- 3COM Fast Etherlink 10/100 Ethernet Card **$89**

UNIWARRANTY

- 30-Day Unconditional 100% Money-Back
- Five-Year Parts and Three-Year Labor Warranty.
- First Year of On-Site Service Included. (Three-Year contract add $99)
- 24-Hour, 7 days a week Toll-free technical support

unicent TECHNOLOGIES

We put the personal back into personal computers.

290 LENA DRIVE, AURORA, OHIO 44202

1.800.320.1475 • TOLL FREE

216-344-2649 • International Sales

800-731-6159 • Ejecutivo De Ventas Bilingue

800-731-6182 • Technical Support

216.344.2647 • FAX

http://www.unicent.com

VISA · American Express · Discover Novus · MasterCard · C.O.D. · Federal Express · UPS

All Prices and Specifications Subject to Change Without Notice • Unicent Technologies cannot be responsible for any omitions, errors in typography or photography. • All Returned Items Must Have RMA #, and Must Be in Original Packaging. • Shipping Charges, Opened Software and Custom Configured Systems are non-refundable. • Absolutely no refunds for merchandise returned after 30 days. • Government, School, and Corporate Purchase Orders are always welcome. • For More Information On Warranty & Policy Please Call. • On-Site Service is a non-refundable option • All logos and brand names are trademarks of their respective companies. * **Business Lease** payments are based on 36 month fair market value lease and do not include shipping/handling or applicable taxes. Lease rates are subject to change without notice or obligation.

Our Convenient Business Hours are: 8am-Midnight Monday thru Friday 9am-7pm Saturdays and Sunday [Eastern Standard Time].

1-800-320-1475

Unicent Technologies is proud to feature quality components by these manufacturers:

ENSONIQ · matrox · Quantum CAPACITY FOR THE EXTRAORDINARY · U.S.Robotics The Intelligent Choice in Information Access · TOSHIBA · Microsoft Windows NT Compatible

Circle 340 on reader service card.

It makes everyone's work that much better.

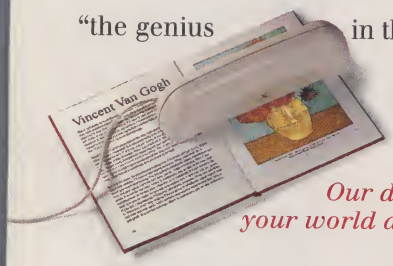


You do your best work when you're having fun. It gives you permission to be creative. Which makes the revolutionary Document HomeCentre™ from Xerox® a wonderful addition to your home. The perfect partner for your PC, it encourages the entire



Color print, color copy and color scan your way to a creative nirvana.

family to create group projects or individual masterpieces. You see, most home computers have become places of solitary confinement, where loved ones all but disappear until forced to eat. But the HomeCentre turns your PC into a center of creative activity where everyone becomes "the genius in the family" in their own way.



Our detachable scanner captures your world and frees your imagination.

No wonder people find it so inspiring. Print eye-catching newsletters you design with drag-and-drop simplicity. Copy sales pieces for a little down-home mass marketing. Scan the twisting brilliance of Van Gogh into a brilliant school report.



DOCUMENT
HomeCentre™

Xerox Brings the Power of Creativity Home.™



*Manufacturer's suggested retail price. XEROX ®, The Document Company ®, the digital X, Document HomeCentre, and Xerox Brings the Power of Creativity Home are registered trademarks and trademarks of XEROX CORPORATION.

Capture the beauty of the world around you. Make it your own. The fee for this creative license? Less than you'd think. You'll find the multi-talented HomeCentre value-priced at CompUSA and Staples. For more info, call 1-800-TEAM-XRX. Or surf the Web to www.xerox.com/products.html. And rediscover what you've known in your heart all along. Fun works.



You won't even have to ask your kids to install it — a single cable makes it easy.



THE DOCUMENT COMPANY

XEROX

Circle 107 on reader service card.


IN AN INDUSTRY THAT
IT'S COMFORTING SOME
BEST
Dell By itself at the top of the class,
with fewer reliability problems.
GOOD
FOR THE SECOND YEAR IN A ROW DELL IS IN THE
TOP TIER FOR OVERALL RELIABILITY AND SERVICE.

THRIVES ON CHANGE, THINGS DON'T.

NEW DELL DIMENSION® XPS D300
300MHz PENTIUM® II PROCESSOR
FEATURING MMX™ TECHNOLOGY

- 64MB SDRAM Memory
- 512KB Integrated L2 Cache
- *NEW* 8.4GB Ultra ATA Hard Drive with 512KB Cache (9.5ms)
- *NEW* 1200HS Monitor (17.9" v.i.s.)
- *NEW* Matrox Millennium II 8MB WRAM Video Card^
- 24X Max.§ Variable CD-ROM
- Creative Labs AWE64 Value Sound Card
- Altec Lansing ACS-490 Full Dolby Surround Sound Speakers with Subwoofer
- 56K Capable** U.S.R. x2 WinModem
- Iomega Zip 100MB Internal Drive
- Microsoft® Office 97 Small Business Edition plus Bookshelf 96
- MS Windows® 95/MS IntelliMouse
- 3 Year Limited Warranty† with 1 Year On-site^Δ Service

$3799

Business Lease◊: $134/Mo.
Order Code #500928

NEW DELL DIMENSION XPS D266
266MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

- 32MB SDRAM Memory
- 512KB Integrated L2 Cache
- *NEW* 6.4GB Ultra ATA Hard Drive with 512KB Cache (9.5ms)
- *NEW* 1000TX Trinitron® Monitor (15.9" v.i.s., .26dp)
- *NEW* STB Velocity 4MB AGP Video Card*
- 24X Max.§ Variable CD-ROM
- Creative Labs AWE64 Value Sound Card
- Altec Lansing ACS-290 Speakers with Subwoofer
- 56K Capable** U.S.R. x2 WinModem
- Microsoft Office 97 Small Business Edition plus Encarta 97
- MS Windows 95/MS IntelliMouse
- 3 Year Limited Warranty with 1 Year On-site Service

$2799

Business Lease: $101/Mo.
Order Code #500927

NEW DELL DIMENSION XPS D233
233MHz PENTIUM II PROCESSOR
FEATURING MMX TECHNOLOGY

- 32MB SDRAM Memory
- 512KB Integrated L2 Cache
- *NEW* 4.3GB Ultra ATA Hard Drive (9.5ms)
- 1000LS Monitor (15.9" v.i.s.)
- *NEW* STB Velocity 4MB AGP Video Card*
- 24X Max.§ Variable CD-ROM
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-90 Speakers
- 56K Capable** U.S.R. x2 WinModem
- Microsoft Office 97 Small Business Edition plus Bookshelf 96
- MS Windows 95/MS IntelliMouse
- 3 Year Limited Warranty with 1 Year On-site Service

$2399

Business Lease: $87/Mo.
Order Code #500926

DELL DIMENSION XPS M200s
200MHz PENTIUM® PROCESSOR
WITH MMX TECHNOLOGY

- 32MB SDRAM Memory
- 512KB Single Bank Pipeline Burst Cache
- 4.3GB Hard Drive (9.5ms)
- 1000LS Monitor (15.9" v.i.s.)
- STB Nitro 4MB EDO PCI Video Card
- 24X Max.§ Variable CD-ROM
- Sound Blaster 16 WaveSynth Wavetable Sound
- Altec Lansing ACS-90 Speakers
- 56K Capable** U.S.R. x2 WinModem
- Microsoft Office 97 Small Business Edition plus Bookshelf 96
- MS Windows 95/MS IntelliMouse
- 3 Year Limited Warranty with 1 Year On-site Service

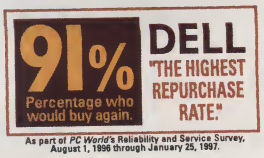
★ *Upgrade to 64MB SDRAM, add $199.*

$1999

Business Lease: $72/Mo.
Order Code #500925

"DELL IS THE ONLY COMPANY VOTED TOPS IN BOTH RELIABILITY AND SERVICE CATEGORIES-EARNING A BEST RATING OVERALL." -*PC WORLD*, JUNE '97

In addition to being dependable and affordable, it now appears we're a little predictable too. That's because we've scored Best Overall in Reliability and Service on *PC World*'s survey, yet again. And not only did we beat 12 "industry leaders," but we also scored five perfect stars in eight of nine survey categories. So what does this mean for you? While we'll continue to impress you with our state-of-the-art technology at incredible prices, you can still expect superior quality components in every computer and, if you should ever need it, the same superior response from the Dell service department. So give us a call now for your new computer or visit our Web page. And you'll discover why, after such a stunning blow like this, the competition's seeing stars. Five of them, actually.



DELL®

TO ORDER TOLL-FREE

888-684-3355

TO ORDER ONLINE

www.dell.com/buydell

Mon-Fri 7am-9pm CT • Sat 10am-6pm CT
Sun 12pm-5pm CT In Canada,* call 800-233-0750
GSA Contract #GS-35F-4076D

Keycode #02262



***Product, as configured, will ship by October 20. Please call for updated shipment information.**

†For a complete copy of our Guarantees or Limited Warranties, please write Dell USA L.P., Attn. Warranty, One Dell Way, Round Rock, TX 78682. ^On-site service provided by an independent third-party provider. May not be available in certain remote areas. ^4MB baseboard with a 4MB upgrade module. §24X Max./12X Min. **x2 products are capable of 56Kbps downloads. Due to FCC rules that restrict power output, however, current download speeds are limited to 53Kbps. Upload speeds are limited to 33.6 Kbps. Actual speeds may vary depending on line conditions. *Prices and specifications valid in the U.S. only and subject to change without notice. Intel, the Intel Inside logo and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. MS, Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation. ©1997 Dell Computer Corporation. All rights reserved.

Play, Uh, Ball

BY RON WHITE

You should first know this: I throw like a girl. As a child I was—wisely—picked last for any team sport. As a young man, I grew my hair shoulder-length to avoid barbers who inevitably asked how I liked "the game" last night. Now, as a middle-aged man, I'm reviewing CDs based on games about which I have less knowledge than the average ten-year-old. In fact, CDs are as close as I come to a sporting life. The best sports are those you can play sitting in an air-conditioned office, in a big, comfortable chair, while you munch on a bag of Fritos. To find even more sport CDs that I'm entirely unqualified to review, check out www.cdron.com.



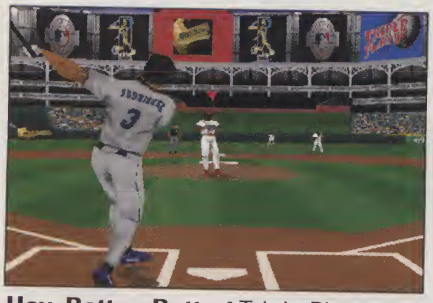


TRIPLE PLAY 98

●●●●●

Triple Play 98 completely captures the essence of baseball. You sit through nine innings that are so realistic you feel sunburned. This game combines 3-D animation and artificial intelligence with the roar of a crowd and the action of virtual players from real teams. I of course played the game poorly from the first pitch, which landed in the batter's groin. But I was impressed by the swooping, multiple camera angles and the uncannily accurate two-man, play-by-play commentary, which appropriately criticized my pitching. A couple of times I forgot that this was only a computer game and not something real like, say, a TV show. Throw in network play, a crowd that goes into a chant if you take too long, smooth MMX-powered multimedia, individualized playing styles for each player's avatar, and the chance to play team-manager god by creating players, you've got something that almost makes baseball not boring.

Triple Play 98 / Electronic Arts / (800) 245-4525, (415) 571-7171 / $50 est. street price / *Reader Service No. 676*



Hey, Batter, Batter! Triple Play 98 is just like real baseball, but fun.

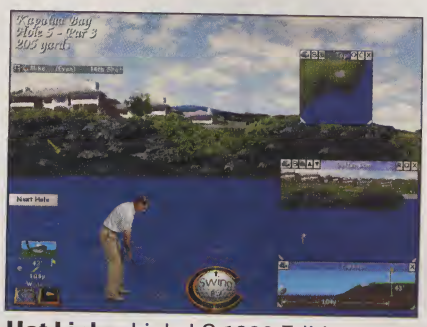


BACKYARD BASEBALL

●●●●●

Now this is my kind of baseball. The players are kids who close their eyes when they swing, spin in circles, stumble while running, and miss the ball about as often as they catch it. Backyard Baseball is meant for kids, but why let them have all the fun? This is much like Triple Play 98—you can trade players who get better with practice, and the game is presented in colorful, full-screen animation. It doesn't have the realistic look of Triple Play, but Backyard Baseball has flights of fancy; a ground ball actually goes into the ground. There's enough here to delight an adult, but the game's easy enough for a first-grader to play. It's a natural.

Backyard Baseball / Humongous Entertainment / (800) 499-8386, (206) 486-9258 / $40 est. street price / *Reader Service No. 677*



Hot Links: LinksLS 1998 Edition is a hyperrealistic golf simulation, except it lets you walk on water.



LINKSLS 1998 EDITION

●●●●● I've actually played golf. So I can say from personal experience that it sure is fun to drive those little carts. Most golf CDs are essentially the same game, just located at different virtual courses. But they all sell like mad, which means that either golfers are dumber than I thought, or . . . uh, have you seen LinksLS? It's the latest in a series of golf CDs that do it right. The four-disc set has four golf courses, animated coaching from Arnold Palmer, more camera angles than an MTV video, and Internet tournaments. Unlike other golf sims, figuring out how to play is easy. Time a few mouse clicks just right, and you too can hit the ball straight into the ocean.

LinksLS 1998 Edition / Access Software / (800) 800-4880, (801) 359-2900 / $80 est. street price / *Reader Service No. 678*

PHOTOGRAPH BY DAVID PERRY

Ratings: ●●●●● *Touchdown.* ●●●● *No-hitter.* ●●● *Homecoming.* ●● *Fumble.* ● *Rodman wants to see you in the locker room.*

RAND McNALLY

Mother Nature created her world in 4.5 billion years. You can create yours in ten minutes.



This software runs on Windows® 95 and Windows NT® version 4.0.

Mother Nature had her chance to shape the world. Now it's your turn with New Millennium™ World Atlas Deluxe software from Rand McNally. It's the only atlas that lets you create a personalized view of the world.

You can use drawing tools to customize maps, highlight areas of interest – even add new colors. You can also store maps and information in Notebooks. And if you're in the mood to explore, New Millennium™ will let you jump instantly to anywhere in the world.

Imagine. Meet a dinosaur face to face. Look inside a volcano and see what causes it to erupt. Experience the most beautifully detailed 3-D maps available. Rand McNally has been making atlases for over 100 years, and this is truly one of the most exciting we've ever created. So go ahead. Take your world for a spin™.



Stop by your nearest software dealer or visit our website at www.randmcnally.com.

Circle 255 on reader service card.



BRITISH OPEN CHAMPIONSHIP GOLF ●●●●

British Open Championship Golf is proof that when it comes to inventing boring sports, the British are unmatched. Added to golf's unusual ennui is that with this CD, I never figured how to control the player's swing. When I pressed the F1 key for help, the game told me only, "You go to the tee . . . change any shot options such as club selection or aim, take a good whack at the ball . . . " Change how? Select how? Aim how? You can ask for help from an animated caddy. I listened to about a minute of his smart-mouthed brogue and took, uh, some kind of club to him. The game looks very nice and 3-D-ish, and you can play against any of eight pros whom I've never heard of—which, I must remind you, means absolutely nothing. I can't wait for CD cricket.

British Open Championship Golf / Looking Glass Technologies / (800) 360-7455 / $50 est. street price / *Reader Service No. 679*



SIMGOLF ●●●●

SimGolf, from the same folks who bring you simulations of everything from cities to hell, lets you



Fantasy Golf: Got a better idea? Design your perfect course, then play it with SimGolf.

design the type of golf course you play on. You determine the hilliness of the terrain; place trees, grass, and rocks where you want; and position your tees and greens—landscaping without getting dirty. This game is perfect for golfers who think they could design a course better themselves. If you don't feel creative, you can play on virtual renditions of two professionally designed courses. Playing the game requires more than a couple of mouse clicks, as with LinksLS. You have to actually move the mouse, which is more exercise than I was planning on.

SimGolf / Maxis / (800) 336-2947, (510) 933-5630 / $50 est. street price / *Reader Service No. 680*



3-D ULTRA MINI GOLF ●●●●

Now this is a game for a real golfer. Anyone can hit a ball in a straight line; few can hit it between the arms of an octopus, out of a hungry dinosaur's reach, past lasers that could vaporize the ball in an instant, or away from a treacherous lava flow. If you're ready for a game replete with testosterone, relentlessly upbeat music, and a wisecracking commentator, 3-D Ultra Mini Golf is for you. Ironically, it has a more natural way of letting you hit the ball than the serious golf games do. You move the mouse, but there's no tricky timing; I felt like I actually had the putter in my hands. It's also a bit of an adventure game as you figure out which strategies are best—should you let the frog hop away with your ball or would it be better if a bee carried it away? (I'll tell you up front: Don't trust the spider.) This is the only one of the golf games where I played the entire 18 holes—which, I'll say again, means nothing. Still, it's a little disappointing that there aren't more varied effects or difficulty levels.

3-D Ultra Mini Golf / Sierra On-Line / (800) 757-7707 / $45 est. street price / *Reader Service No. 681*



NBA FULL COURT PRESS ●●●●

You tell me what's wrong with this picture: San Antonio Spurs, 129; Chicago Bulls, 43. That's right! A whole sentence about basketball without a product endorsement by Michael Jordan. The score's pretty unbelievable too. That's because I was playing Chicago against San Antonio's artificial intelligence. There are ten players on the court and I controlled only one of them. Actually, I felt as much control over the game as I would over a fistful of Jell-O. But then at real basketball games I'm usually confused about which side has the ball, much less what anyone should do with it. Even getting stomped on, I enjoyed the game because of the authentic NBA stuff—real teams and real players, down to Dennis Rodman's green hair. The virtual teams use the plays the real teams do, and there's a good bit of other verisimilitude, including a chanting crowd and one of those dreadful organs. It doesn't prove much that I was beat by a machine. This game could also give problems to someone who knows what they're doing.

NBA Full Court Press / Microsoft / (800) 426-9400 / $45 est. street price / *Reader Service No. 682*



MICROSOFT SOCCER ●●●●

Help me out here, will you, pal? I've got to run and I don't have time to write another



Goooooal! Microsoft Soccer gives you a fast-paced introduction to the most popular sport in the world.

review. Would you just reread the previous review of NBA Full Court Press, and change every basketball reference to something about soccer? Say anything. People in the United States don't know how soccer is played anyway. Mention something about a riot. I mean, this has the same artificial intelligence and fast action as Full Court Press. If you're a soccer mom, dad, or kid, this gives you the action with plenty to kick about.

Microsoft Soccer / Microsoft / (800) 426-9400 / $45 est. street price / *Reader Service No. 683*

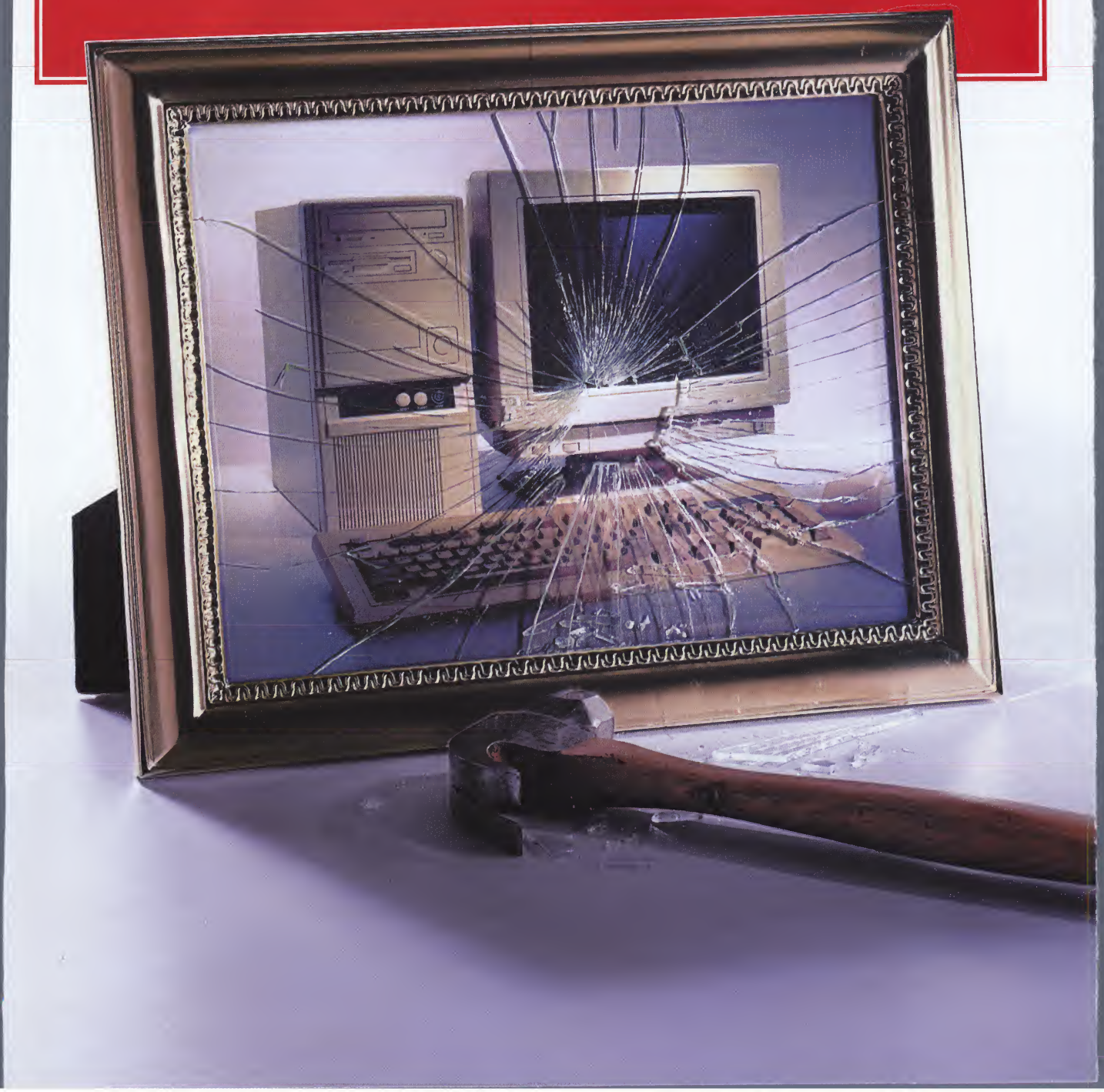


YOU DON'T KNOW JACK SPORTS ●●●●●

Finally, a sports CD-ROM that understands me. This latest Jack game makes you and up to three friends contestants on a TV game show. That's right, it has the same obnoxious host, bouncy music, bad jokes, and double entendres. In other words, it's fun. And it's not all jock stuff; the CD even works in a joke about Holden Caulfield. If you ever stop playing the game, be sure to hang around for the credits. Leaving no opportunity for a joke untouched, the game ends with credits that are the best since Monty Python's.

You Don't Know Jack Sports / Berkeley Systems / (800) 757-7707, (510) 540-5535 / $30 est. street price / *Reader Service No. 684*

Is lack of support ending your infatuation with your current P.C.?



Here's 3 more re

Imagine! A value-packed, award-winning multimedia system at an unmatched price!

Quantex leads the pack when it comes to offering the newest technology at a price that is never out of reach. We have done it again with our QP6/266 M-4x for under $2500. That's right! For only $2499 you can own this fully loaded machine, complete with 266 MHz Pentium® II processor, Intel 440LX chipset, a 17" digital monitor, AGP graphics card, a huge 5GB hard drive loaded with our impressive software bundle and much, much more. Quantex, redefining value once again.

QP6/266 M-4x
(featuring Pentium® II processor) **$2499**

Business lease: $87/Mo.

- 266MHz Pentium® II Processor
- Intel 440LX PCI Chipset
- 64MB SDRAM Memory /512KB Secondary Cache
- 5.1GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- STB AGP Graphics Card w/4MB
- 17" Digital Monitor (16.1" viewable)
- K56flex™ protocol Fax/Modem w/Voice Mail and Speakerphone
- 24X Max EIDE CD-ROM Drive
- Ensoniq 32-bit Wavetable Sound Card
- Altec Lansing ACS-90 Speakers
- ATX Case
- 104-Key Keyboard with MS PS/2 Mouse
- MS Windows '95 with MS Plus
- Value Multimedia Software Bundle
- 3-year limited warranty, 24-hr./7-day Technical Support

QP6/233 M-4x (featuring Pentium II processor).....$2399
QP6/300 M-4x (featuring Pentium II processor).....$2799



Special Upgrade to 19" monitor for only $249 (for M-4x)

MMX intel inside pentium II

Value Multimedia Series

Standard Features ■ 2 Universal Serial Bus (USB) Ports ■ K56flex™ protocol Fax/Modem w/Voice Mail and Speakerphone ■ 24X Max EIDE CD-ROM Drive ■ Ensoniq 32-bit Wavetable Sound Card ■ 104-Key Keyboard with MS PS/2 Mouse ■ Mini-Tower Case ■ MS Windows '95 with MS Plus ■ 3-year limited warranty, 24-hr./7-day Technical Support

QP5/166 M-1
(with MMX™ Technology) **$1349**

Business lease: $47/Mo.

- 166MHz Pentium® Processor with MMX™ Technology
- 16MB EDO Memory /512KB Pipeline Burst Cache
- 2.1GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- STB Nitro 3D w/2MB
- Altec Lansing ACS-90 Speakers
- 15" Digital Monitor (14.0" viewable)
- Value Multimedia Software Bundle
- Upgrade M-1 to 32MB EDO and 3.2GB HD for only $100

QP5/200 M-1 (with MMX™ Technology).....$1449
QP5/233 M-1 (with MMX™ Technology).....$1599
QP6/233 M-1x (featuring Pentium II processor)...$1799

QP5/166 M-2
(with MMX™ Technology) **$1649**

Business lease: $52/Mo.

- 166MHz Pentium® Processor with MMX™ Technology
- 32MB EDO Memory /512KB Pipeline Burst Cache
- 3.2GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- STB Nitro 3D w/4MB
- Altec Lansing ACS-90 Speakers
- 17" Digital Monitor (16.1" viewable)
- Value Multimedia Software Bundle

QP5/200 M-2 (with MMX™ Technology).....$1749
QP5/233 M-2 (with MMX™ Technology).....$1899
QP6/233 M-2x (featuring Pentium II processor)...$2099

QP5/200 M-3
(with MMX™ Technology) **$1899**

Business lease: $66/Mo.

- 200MHz Pentium® Processor with MMX™ Technology
- 64MB EDO Memory /512KB Pipeline Burst Cache
- 4GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- STB Nitro 3D w/4MB
- Altec Lansing ACS-45 Speakers with subwoofer
- 17" Digital Monitor (16.1" viewable)
- Value Multimedia Software Bundle

QP5/233 M-3 (with MMX™ Technology).....$2049
QP6/233 M-3x (featuring Pentium II processor).....$2249
QP6/266 M-3x (featuring Pentium II processor).....$2399

SOFTWARE BUNDLE

■ Corel Office Suite ■ MS Money '97 ■ Compton's Interactive Encyclopedia ■ Compton's Interactive World Atlas ■ Key Master Maps ■ Body Works 6.0 ■ American Heritage Talking Dictionary ■ Amazon Trail II ■ Internet the City ■ Compton's Reference Collection ■ Dr. Solomons Anti-Virus ■ Windows 95 with MS Plus ■ One-month trial memberships to AOL, CompuServe and Prodigy

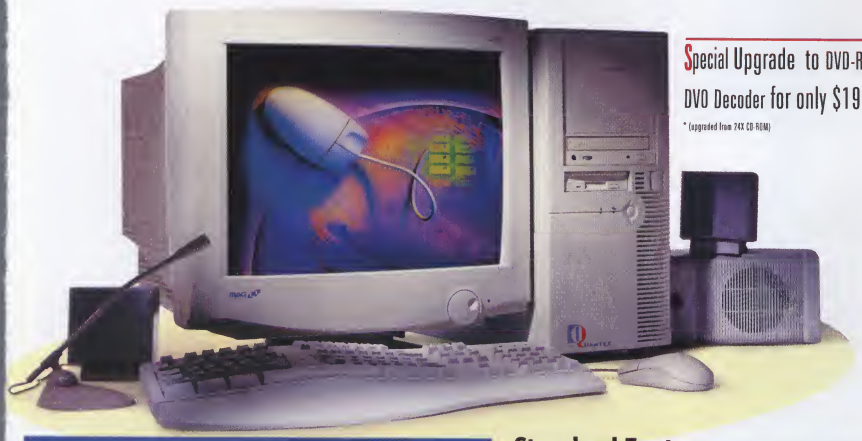
UPGRADE (available with system purchase)

■ Panasonic PD/CD-Rom Drive w/ one 650MB PD cartridge..$ 249 ■ Three(3) Panasonic PD Cartridges ..$99 ■ APC Back UPS Pro 650...$ 285 ■ Microsoft Natural Keyboard (u

easons to love us. And never

The competition can't measure up to our fastest system ever..

Our QP6/300 SM-4x has a mind-boggling 300 MHz Pentium® II Processor, just for starters. And an eye-opening 19" monitor to let you see all this speed in action. We follow this up with a huge 8GB Enhanced IDE hard drive to provide all the space you need. Then throw in Matrox's quickest video card with new AGP technology--the Millennium II with 4 MB of WRAM-- for a combination of speed, power and visual fireworks that can't be beat. All backed by Quantex's award winning service and support, including 24 x 7 tech support from living, breathing experts.



Special Upgrade to DVD-ROM* & DVD Decoder for only $199 (for SM-4x)

* (upgraded from 24X CD-ROM)

QP6/300 SM-4x (featuring Pentium® II processor) $3399

Business lease: $111/Mo.

- 300MHz Pentium® II Processor
- Intel 440LX PCI Chipset
- 2 Universal Serial Bus (USB) Ports
- 64MB SDRAM Memory / 512KB Secondary Cache
- 8GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- AGP Matrox Millennium II 3D w/4MB WRAM
- Upgrade to AGP Matrox Millennium II 3D w/8MB WRAM for only $99
- 19" Digital Monitor (18.1" viewable)
- K56flex™ protocol Fax/Modem w/Voice Mail and Speakerphone
- 24X Max EIDE CD-ROM Drive
- Ensoniq 32-Bit Wavetable Sound Card
- Altec Lansing ACS-45 Speakers w/subwoofer
- ATX Case
- 104-Key Keyboard With MS IntelliMouse
- MS Windows '95 With MS Plus
- Power Multimedia Software Bundle
- 3-year limited warranty, 24-hr./7-day Technical Support

QP6/233 SM-4x (featuring Pentium II processor) $2999

QP6/266 SM-4x (featuring Pentium II processor) $3149

Power Multimedia Series

Standard Features ■ 2 Universal Serial Bus (USB) Ports ■ K56flex™ protocol Fax/Modem w/Voice Mail and Speakerphone ■ 24X Max EIDE CD-ROM Drive ■ Ensoniq 32-Bit Wavetable Sound Card ■ 104-Key Keyboard With MS IntelliMouse ■ MS Windows '95 With MS Pl ■ Power Multimedia Software Bundle ■ 3-year limited warranty, 24-hr./7-day Technical Support ■ Mid-Tower Case

QP6/233 SM-1x (featuring Pentium® II processor) $1999

Business lease: $72/Mo.

- 233MHz Pentium® II Processor
- 32MB EDO Memory / 512KB Secondary Cache
- 3.2GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- STB Nitro 3D with 4MB
- 15" Digital Monitor (14.0" viewable)
- Altec Lansing ACS-90 Speakers

QP5/200 SM-1 (with MMX™ Technology).... $1699

QP5/233 SM-1 (with MMX™ Technology).... $1799

QP6/266 SM-1x (featuring Pentium II processor) $2149

QP6/233 SM-2x (featuring Pentium® II processor) $2249

Business lease: $78/Mo.

- 233MHz Pentium® II Processor
- 32MB EDO Memory / 512KB Secondary Cache
- 4GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- STB Nitro 3D with 4MB
- 17" Digital Monitor (16.1" viewable)
- Altec Lansing ACS-90 Speakers
- Upgrade SM-2 to 64MB EDO RAM and 5.1GB HD for only $150

QP5/200 SM-2 (with MMX™ Technology)..... $1899

QP5/233 SM-2 (with MMX™ Technology)..... $2049

QP6/266 SM-2x (featuring Pentium II processor). $2399

QP6/233 SM-3x (featuring Pentium® II processor) $2549

Business lease: $89/Mo.

- 233MHz Pentium® II Processor
- Intel 440LX PCI Chipset
- 64MB SDRAM Memory / 512KB Secondary Cache
- 6.4GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- STB AGP Graphics Card with 4MB
- 17" Digital Monitor (16.1" viewable)
- Altec Lansing ACS-45 Speakers w/subwoofer

QP6/266 SM-3x (featuring Pentium II processor) $2699

QP6/300 SM-3x (featuring Pentium II processor) $2999

SOFTWARE BUNDLE

■ MS Office '97 SBE ■ MS Money '97 ■ Office Mate ■ Day Planner Pro ■ Power Business Plans ■ Form Designer Pro ■ Project Manager Pro ■ Labels Unlimited ■ Compton's Reference Collection ■ Dr. Solomons Anti-Virus ■ Windows 95 with MS Plus ■ One-month trial memberships to AOL, CompuServe and Prodigy

ɔgrade from 104-keyboard).. $ 39 ■ HP Deskjet 692C Printer (w/photo color kit).... $ 299 ■ HP Laserjet 6L Laser Printer....$ 399

leave us.

Our new notebook. The toughest competition the top-rated notebook's ever had.

THE POINT AT WHICH YOUR NOTEBOOK MEETS YOUR DESKTOP.

Quantex is proud to say that we are one of the last to introduce a notebook. Why? Because, unlike our competition, we waited until we could combine Intel Mobile Module Architecture, a 13.3" XGA Active Matrix screen and a 3GB removable hard drive with all the latest technologies for maximum versatility and expandability in a notebook. Meridian H Series notebooks: they're the equal of the top performing desktops and backed with our acclaimed 24-hour 7-day live tech support. For further information check out our website: www.Quantex.com



Meridian H 1331 $4499

Business lease: $146/Mo.

- 233MHz Pentium® Processor with MMX™ Technology
- Intel Mobile Module Architecture
- 13.3" XGA Active Matrix Display
- 64MB SDRAM(expandable to 144MB) / 512KB Pipelined Burst Cache
- 3GB HD / 3.5" 1.44MB Modular Floppy Drive
- PCMCIA 33.6k Fax/Modem
- 20X Max Modular CD-ROM Drive
- PCI Bus with 128-bit graphics accelerator
- Integrated 16-bit Stereo Sound and Speakers
- Smart Lithium Ion Battery
- USB and Fast IR Ports
- Integrated Personal Touchpad
- MS Windows '95
- MS Office '97 SBE
- 24-hr./7-day Technical Support
- 3-year limited warranty on CPU and Main Memory
- 1-year parts and labor limited warranty on all other components

- **13.3" XGA Active Matrix Display**
- **New! Intel 430 TX PCI Chipset**
- **USB and Fast IR Ports**
- **PCI Bus with 128-Bit Graphics Accelerator**
- **Intel Mobile Module (IMM) architecture**
- **233 MHz Pentium® Processor with MMX™ Technology**

Meridian H Series

Standard Features ■ 3.5" 1.44 Modular Floppy Drive ■ 20X Max Modular CD-ROM Drive ■ PCI Bus w/128-bit graphics accelerator ■ Integrated 16-bit Stereo Sound and Speakers ■ Touchpad ■ Smart Lithium Ion Battery ■ USB and Fast IR Ports

Meridian H 1210 $2999

Business lease: $105/Mo.

- 200MHz Pentium® Processor with MMX™ Technology
- Intel Mobile Module Architecture
- 12.1"SVGA Active Matrix Display
- 16MB SDRAM (expandable to 144MB)/512KB Pipelined Burst Cache
- 1.4GB HD
- Windows 95
- Carrying Case
- 24hr./7-day Technical Support
- 3-year limited warranty on CPU and Main Memory
- 1-year parts and labor limited warranty on all other components

Meridian H 1210 (with 166MHz Pentium® Processor with MMX™ Technology) $2799

Meridian H 1211 $3499

Business lease: $114/Mo.

- 233MHz Pentium® Processor with MMX™ Technology
- Intel Mobile Module Architecture
- 12.1" SVGA Active Matrix Display
- 32MB SDRAM (expandable to 144MB)/512KB Pipelined Burst Cache
- 2GB HD
- PCMCIA 33.6K Fax/Modem
- Windows 95
- Carrying Case
- 24-hr./7-day Technical Support
- 3-year limited warranty on CPU and Main Memory
- 1-year parts and labor limited warranty on all other components

Meridian H 1330 $3999

Business lease: $130/Mo.

- 233MHz Pentium® Processor with MMX™ Technology
- Intel Mobile Module Architecture
- 13.3" XGA Active Matrix Display
- 32MB SDRAM (expandable to 144MB)/512KB Pipelined Burst Cache
- 3GB HD
- PCMCIA 33.6K Fax/Modem
- Windows 95
- Carrying Case
- 24-hr./7-day Technical Support
- 3-year limited warranty on CPU and Main Memory
- 1-year parts and labor limited warranty on all other components

SUPPORT POLICY ■ 30-day money back guarantee ■ One-year Parts and Labor limited warranty ■ 3 years limited warranty on CPU and Main Memory ■ 1-year Depot Repair ■ 1-year express Replacement limited warranty ■ 24-hr./7-day Toll Free Technical Support

UPGRADES ■ Mini-Docking Station,,,.$199 ■ 2nd Lithium Ion Battery.....$199 ■ PCMCIA Network Adapter...$129 ■ PCMCIA 33.6k Fax Modem...$129 ■ Deluxe Carrying Case....$99

MMX™ intel inside pentium® II PROCESSOR

Well here's living proof customers just love Quantex.

Nothing sours a romance with your PC faster than costly repairs and lousy tech support. That's why Quantex builds its PC's to last. But if anything should ever go wrong we make sure you get your PC working again in no time at all. We even provide 24 x 7 tech support from live experts. If you need any proof of this, just check out what a recent survey says about our ability to handle any kind of problem quickly and inexpensively. And think of all the money you'll save on broken glass.

Overall Rankings

PC VENDOR	GRADE
Quantex	Excellent
Dell	
Hewlett-Packard	
IBM	
Compaq	Good
Gateway 2000	
Micron	
NEC	
Acer	Fair
AST	
Toshiba	
AT&T	Poor
Digital	
Packard Bell	

Windows Magazine, 8/97

Solving Problems

VENDOR	DAYS TO RESOLVE PROBLEMS
Quantex	**11**
IBM	12
Compaq	13
Dell	14
Hewlett-Packard	14
NEC	14
Acer	16
Micron	17
AST	17
AT&T	20
Gateway	21
Digital	27
Packard Bell	27
Toshiba	37

Windows Magazine, 8/97

Would You Buy Again?

VENDOR	% WHO WOULD BUY THE SAME BRAND
Dell	92%
Quantex	**91%**
Hewlett-Packard	89%
IBM	89%
Micron	81%
Gateway	80%
Acer	74%
AST	74%
NEC	71%
AT&T	69%
Digital	69%
Toshiba	61%
Compaq	58%
Packard Bell	51%

Windows Magazine, 8/97

"Quantex, making its debut in the desktop category, quickly resolves its callers' problems an impressive 47 percent of the time, compared with the survey average of 31 percent."

PC Magazine 7/97

"★★★★" Buy again based on service and support

PC World 6/97



QUANTEX
GOOD CHOICE.℠
1.800.787.8686
www.quantex.com

Why do people love our network-ready workstations?

Total compatibility. And lots more.

Network managers love our Network-Ready Series workstations for many reasons. First, because Quantex WS workstations are 100% Novell® certified and Microsoft NT® certified, so managers are assured of the highest level of network compatibility and performance.

Second, because Quantex network-ready systems are Network-Ready Certified by 3Com. Each is pre-installed, pre-tested and certified to work within their network environment, so managers know that reliable connections are guaranteed.

And third, because Quantex customers always enjoy the piece of mind that comes from knowing not only that Quantex systems are valued packed and competitively priced, but also come with the most reliable support package in the industry.

So relax! With Quantex workstations, reliable, hassle-free connections are guaranteed, so you'll never have to worry about network compatibility again!

QP6/266 WS-3x $2499
(featuring Pentium® II processor)

Business lease: $88/Mo.

- 266MHz Pentium® II Processor
- Intel 440LX PCI Chipset
- 2 Universal Seriel Bus (USB) Ports
- 32MB SDRAM Memory / 512KB Secondary Cache
- 5.1GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- STB AGP Graphics Card with 4MB
- 17" Digital Monitor (16.1" viewable)
- 3COM 3c905 PCI 10/100 NIC
- 24X Max EIDE CD-ROM Drive
- ATX Case
- 104-Key Keyboard with MS PS/2 Mouse
- MS Windows NT 4.0 Workstation
- 3-year limited warranty, 24-hr./7-day Technical Support
- Upgrade WS-3x to 64MB SDRAM, 9GB UW SCSI HD and 12x SCSI CD-ROM Drive(incl. UW SCSI Controller)only for only $900

QP6/233 WS-3x(featuring Pentium® II Processor). .$2349
QP6/300 WS-3x(featuring Pentium® II Processor). .$2799



MMX™ intel inside pentium® PROCESSOR

Network Ready Series

Standard Features ■ STB Nitro3D w/2MB ■ 3COM 3c509 ISA Combo NIC ■ 24X Max EIDE CD-ROM Drive ■ 104-Key Keyboard with MS PS/2 Mouse ■ MS Windows '95 with MS Plus

QP5/166 WS-1 $1249
(with MMX™ Technology)

Business lease: $44/Mo.

- 166MHz Pentium® Processor with MMX™ Technology
- 16MB EDO Memory / 512KB Pipeline Burst Cache
- 1.2GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- 15" Digital Monitor (14.0" viewable)
- Mini-Tower Case
- 2 Universal Serial Bus (USB) Ports
- 3-year limited warranty, 24-hr./7-day Technical Support

QP5/200 WS-1(with MMX™ Technology).....$1349
QP5/233 WS-1(with MMX™ Technology).....$1499

QP5/233 WS-2 $1799
(with MMX™ Technology)

Business lease: $63/Mo.

- 233MHz Pentium® Processor with MMX™ Technology
- 32MB EDO Memory / 512KB Pipeline Burst Cache
- 3.2GB EIDE Mode 4 HD / 3.5" 1.44MB Floppy Drive
- 17" Digital Monitor (16.1" viewable)
- Mid-Tower Case
- 2 Universal Serial Bus (USB) Ports
- 3-year limited warranty, 24-hr./7-day Technical Support

QP5/166 WS-2(with MMX™ Technology).....$1599
QP5/200 WS-2(with MMX™ Technology).....$1699

QUANTEX
GOOD CHOICE.℠

1.800.787.8686

www.quantex.com

© 1997 Quantex Microsystems, Inc. All Rights Reserved, 4008 Pierce Street, Somerset NJ08873. Sales Hours: M-F, 9 a.m. - 12 a.m. (ET) - Sat., 9 a.m. - 6 p.m. All desktop system sales are subject to Quantex's three-year limited warranty and terms and conditions of sale. The three-year limited warranty includes first year, parts and labor. Second and third years, parts only warranty. No on-site service is available outside of the continental USA. On-site service is provided at the sole discretion of Quantex. On-site service is provided by an independent third-party provider. For details on our warranty or money-back guarantee call or write us.. Other peripherals such as printers, joysticks, etc., are covered by manufacturer's warranty. Software titles are subject to change and cannot be substituted. All prices and configurations are subject to change without notice or obligation and do not include shipping or sales tax. All returned items must have a conspicuous RMA number issued by Quantex and be in original packaging. 30-day money-back policy does not include return freight or original shipping/handling charges. Quantex is not responsible for errors in typography or photography. Pentium, MMX, Intel and the Intel Inside logo are registered trademarks of Intel. Microsoft, and Windows are registered trademarks of Microsoft Corporation. K56flex is a trademark of Lucent Technologies and Rockwell Int'l. All other company trademarks are tradenames of each respective company.

On-line trading shouldn't feel like this.



With the Waterhouse Investors PC Network™, you're never alone.

On-line investing with 24 x 7 personal service

Unlike some other on-line services, the Waterhouse Investors PC Network supports you with 24 hour-a-day, 7 day-a-week personalized service and technical support. Plus, when you open a Waterhouse Investors PC Network account, you can invest any way you want, whenever you want—**on-line**, by **touch-tone phone** or through your **personal Account Officer**.



You'll benefit from a low $12 flat-fee on-line introductory rate until October 31, 1998. And you'll have unlimited access to a wide range of free on-line investment information.

America's #1 discount broker

SmartMoney magazine called us America's #1 discount broker—with the best combination of price, products and service. Just compare our flat-fee commissions for up to 5,000 shares on equity trades to e.Schwab, Fidelity, Quick & Reilly and other on-line discount brokers. Then compare products and services such as: Free Mutual Fund Investing; No-Fee Asset Management Account; Free Investment Information; Free IRAs; Free Dividend Reinvestment.



Helping investors succeed for nearly 20 years

We've been helping investors since 1979. Today, we have 1,100 Account Officers at 100 branches ready to serve our more than 700,000 customers nationwide. Waterhouse Securities is a member of the New York Stock Exchange and the Securities Investor Protection Corporation.

Get started today

Call 1-800-987-6644 or visit our web site, www.waterhouse.com. Open your account with $5,000 or more and start taking advantage of our $12 flat-fee on-line introductory trading offer today.

One of the reasons *SmartMoney* rates us #1.

Compare for yourself	1,000 shs. @ $10	2,000 shs. @ $14	3,000 shs. @ $12
e.Schwab:			
On-line	$ 29.95	$ 60.00	$ 90.00
Touch-tone	$ 99.00	$145.44	$161.28
Live Broker	$110.00	$161.60	$190.00
Waterhouse Investors PC Network:			
On-line	**$ 12.00**	**$ 12.00**	**$ 12.00**
Touch-tone	**$ 35.00**	**$ 35.00**	**$ 35.00**
Account Officer	**$ 45.00**	**$ 45.00**	**$ 45.00**

Survey date 7/1/97.

1·800·987·6644
www.waterhouse.com

WATERHOUSE SECURITIES, INC.

Member New York Stock Exchange • SIPC
National Headquarters • 100 Wall Street • New York, NY 10005

As a customer of Waterhouse Investors PC Network, you must trade the majority of your trades via a Personal Computer to receive the flat-fee commission schedule. Any trade over 5,000 shares will incur a 1 cent per share charge for the entire trade. Services vary by firm. Rates surveyed are for stocks and may vary for other products. Mutual fund investors, please read the prospectus, which contains management fees and expenses, prior to investing. Mutual funds are neither FDIC-insured nor guaranteed by the U.S. Government and are not deposits or obligations of, or guaranteed by, any bank and are subject to market risk including loss of principal. SmartMoney is a registered trademark of SmartMoney, a joint venture of the Hearst Corporation and Dow Jones & Co., Inc.

A MOTHERBOARD DOESN'T CARE WHO YOU ARE, WHAT YOU NEED, OR IF YOU EVEN KNOW WHERE IT IS.



MMX™ intel inside pentium® PROCESSOR



We'll show you. A motherboard is made of metal, plastic, and solder — materials which have yet to show signs of human compassion. It doesn't care if you need to upgrade it, or get at anything around it. To help out, AST® introduces the FlexChassis design — a feature that allows easy access to the system's major components in seconds. No tools required. Since even the best technology will one day need upgrading, AST is here to help you do it right. For more information about AST Bravo PCs featuring Intel® Pentium® processors, call 1-800-945-2278.

Bravo (Desktop and Mini-Tower)

- 200 MHz Intel Pentium processor with MMX™ technology
- 3 GB UltraDMA-33 hard disk drive
- Integrated 10/100 Ethernet
- 2 MB graphics memory expandable to 6 MB
- Manageability software utilities
  - Intel LANDesk™ 3.0
  - McAfee® VirusScan™ and WebScan™
- 512 KB L2 cache
- 16X maximum speed CD-ROM
- Includes choice of Microsoft® Windows® 95 or Windows NT® 4.0

AST® COMPUTER

Working for your business.™

©1997 AST Research, Inc. All rights reserved. AST and the AST logo are registered trademarks and Working For Your Business is a trademark of AST Research, Inc. The Intel Inside Logo and Pentium are registered trademarks and LANDesk and MMX are trademarks of the Intel Corporation. Microsoft, Windows and Windows NT are registered trademarks of the Microsoft Corporation. McAfee is a registered trademark and VirusScan and WebScan are trademarks of McAfee Associates, Inc.

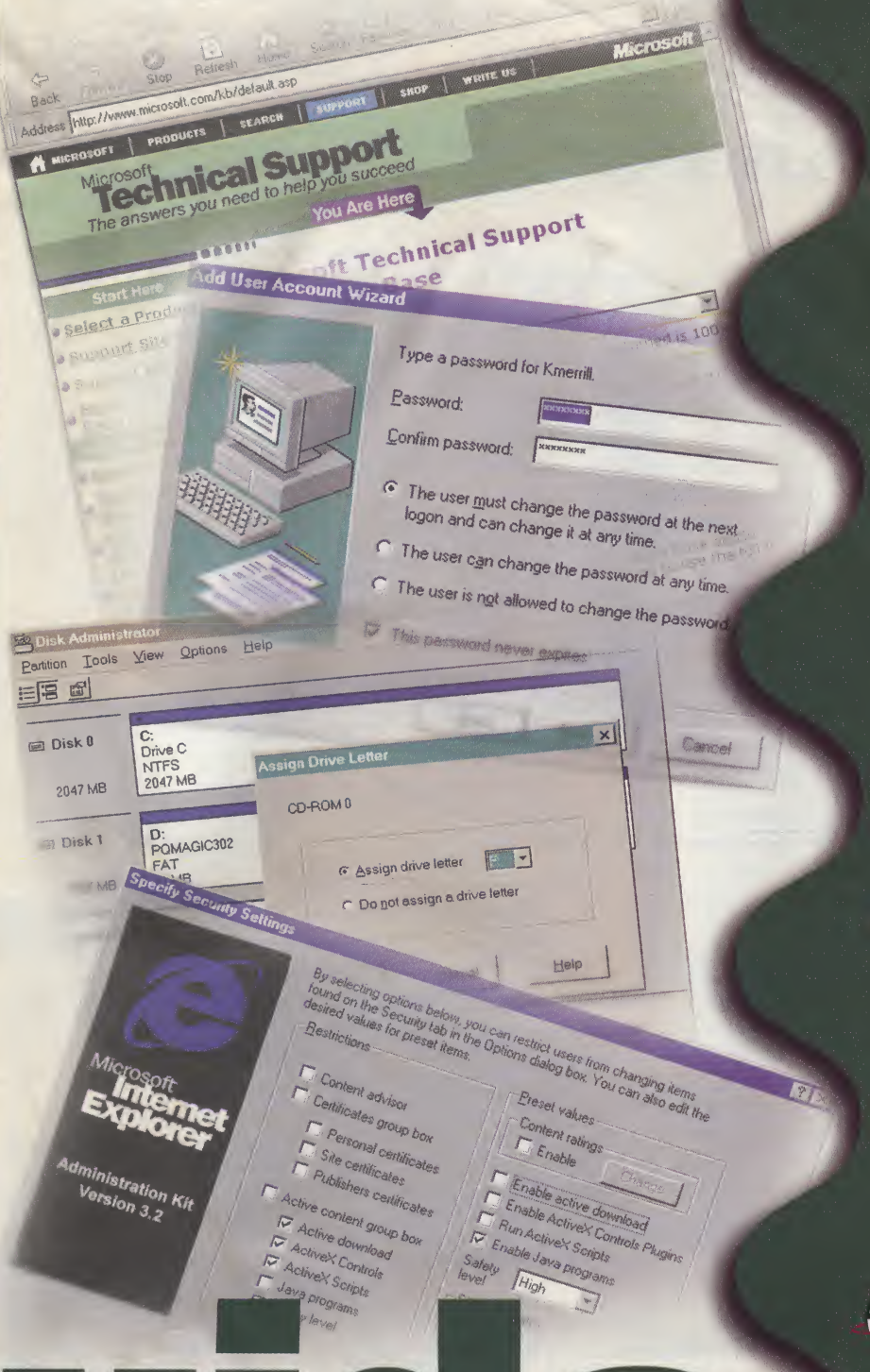
Circle 115 on reader service card.

6th Annual Windows Superguide

Go ahead, admit it: You're sick of Windows treating you with no respect. You're tired of going to the mat just to connect to the Internet. It isn't enough anymore to memorize keyboard shortcuts—now you also have to keep track of an endless supply of patches, updates, and revisions to system components just to keep your PC running. Who's in charge here anyway?

You are—if you're armed with our sixth annual *PC Computing* Windows Superguide. Our Superguide has become so popular, it's spawned a league of imitators. But you don't want to read about yet another collection of Easter eggs and obscure keyboard shortcuts. For the 1997 edition, we've dug deep into the innards of Windows, to give you solid explanations and detailed, step-by-step advice guaranteed to make your system more stable and you more productive. We've organized the guide into five chapters, covering expert-level topics that will turbocharge Windows 95 and NT, crash-proof your PC, and keep your system safe on the Internet.

Just making the switch to Windows 95 or NT? Fire up your Web browser and head to www.pccomputing.com, where we've reproduced the award-winning 1995 and 1996 Superguides. After you've covered those basics, head into this year's Superguide, where we've got answers to your toughest Windows questions.



uide

By ED BOTT and WOODY LEONHARD

204 **Maximum Performance** Don't settle for defaults; go ahead and tweak Windows to your heart's content. Here's how to kick your system performance into high gear.

210 **Windows and the Web** It's the beginning of a beautiful relationship—if you know how to handle your operating system. Slash your ISP costs, get around firewalls, and keep your PC safe.

216 **Up-to-date Windows** You don't have to wait for next year's upgrades to install the latest versions of Windows 95 and NT. Get your hands on these indispensable fixes today!

226 **Networking and Security** Is your network safe? Don't take any chances; follow our expert tips for keeping it all up and running. Plus, foolproof password protection.

238 **Mastering Hardware** Running Windows on a portable doesn't have to mean trade-offs. Here's how to banish mobile and other hardware headaches forever.

Windows Tips, Tricks, and Downloads Visit our Web site for all the latest Windows upgrades and fixes covered in our Superguide at www.pccomputing.com. Plus, pick up loads more Windows 95 and NT tips and downloads.

Maximum Performance

How many times have you installed Windows—and how many times have you done it right? Even if your PC manufacturer installed Windows 95 or NT at the factory, you have all sorts of opportunities to make it work faster and better. After all, the default Windows settings were designed to keep novice users from calling Microsoft's tech-support lines—and you lost your novice status the first time you ran ScanDisk. Microsoft leaves advanced users on their own to discover the settings that take Windows out of first gear. After you've run Setup—for the first time or the 50th—you'll need to make a few adjustments.

Insider Installation

How do I know whether my system is configured for optimal performance?

Right-click on the My Computer icon and choose Properties (if you prefer, you can use the Control Panel System icon to open the same dialog box). Click on the Performance tab. If you see the message Some Drives Are Using MS-DOS Compatibility, your performance is unacceptably low because Windows has to run 16-bit code every time you access the hard drive, floppy disk, CD-ROM drive, or other device. There are several reasons why Windows refuses to use its native 32-bit drivers: Your device may not be compatible with Windows 95, for example, or the Plug and Play process may have failed to detect the controller, or you may be using an outdated version of disk-translation software like Disk Manager.

Do your best to replace those drivers with 32-bit Windows versions. Click on the Details button and see if Windows offers any suggestions. If the hints there don't work and your hard disk is causing the problem, fire up your Web browser and search Microsoft's Technical Support Knowledge Base (www.microsoft.com/kb) for article Q130179, "Troubleshooting MS-DOS Compatibility Mode on Hard Disks." It's chock-full of possible causes for compatibility-mode problems, along with detailed, step-by-step procedures to help you safely install the faster 32-bit drivers.

Back on the System applet's Performance tab, give your CD-ROM drive maximum cache space by clicking on File System, then the CD-ROM tab. Set the slider to Large, and the drop-down list to Quad-Speed or Higher. Finally, if you have more than one hard drive, move your Windows swap file to your fastest, least-used drive (typically the one that doesn't hold the \Windows folder). Click on the Virtual Memory button, choose the option Let Me Specify My Own Virtual Memory Settings, and select the correct drive letter from the drop-down list. Click on OK and reboot.

Take Inventory

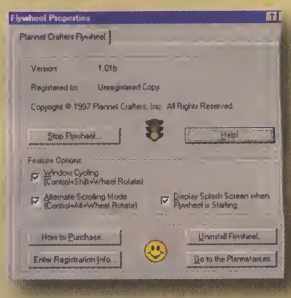
I have a fresh installation of Windows 95, and it seems to be working pretty well. What do I do now?

All vital signs normal? Congratulations. Plug and Play obviously worked this time, but next time you may not be so lucky. And if you ever have to restore a Windows 95 backup onto a system whose hardware settings have changed since you made the backup tape, you'll need an extra-large bottle of extra-strength aspirin. Now is a great time to make sure you can restore all hardware settings to the current working configuration.

Start by printing a complete list of IRQ, DMA, and I/O address settings for future reference. Open the Control Panel System applet, switch to the Device Manager tab, and click on the Print button. Choose All Devices and System Summary. When your printer has finished spitting out pages, grab the printed output and go through one additional, crucial step: Select each entry in the Device Manager list, click

Instant Answer: Wheel Deals

Is your index finger in danger of developing chronic fatigue syndrome? An inexpensive ($50 or less after promotional rebates) hardware upgrade can cut hundreds of clicks out of your day. Microsoft's IntelliMouse looks like a normal mouse except for the flywheel between the buttons. For applications that support the wheel—the growing list includes Internet Explorer 3.*x*, Microsoft Office 97, and most built-in Windows 95 and NT utilities—you can use the wheel to scroll through text without constantly clicking on the scroll bar. Best of all, a $10 shareware utility called Flywheel (downloadable from www.plannetarium.com) lets the wheel work with older applications too.



on the Properties button, and check the resource values listed on your printout against the ones shown on the screen. We've seen several systems where the two settings didn't match—and invariably the screen has been correct.

Next create a simple map of your hard drives and their contents, including both the long and short names for all folders. If Windows goes belly-up and you're forced to poke around in DOS mode looking for folders with ambiguous eight-character names, this list will be a big help. The easiest way to create this map is to pipe a directory listing to a text file. Open an MS-DOS Prompt window and enter the following command: DIR *[driveletter]*:\ /S /AD > C:\Windows\Temp\Dir-map.txt (substitute a different target filename if you prefer, and be sure to repeat the process with a different filename for each drive). To create a list of the names of programs installed on your Start menu, use this DOS command: DIR "%windir%\Start Menu" /S /B > C:\Windows\Temp\Proglist.txt (the quotation marks are essential). Print out each file and save the printouts.

Finally, put all of that critical information in a safe place. Keep it handy and keep it up-to-date.

Smart Registry Saves

How frequently should I back up the Windows Registry?

Since the Registry changes constantly, how often you back up isn't nearly as important as how you coordinate the backups: Each time you back up the Registry, you need to have a full snapshot of all your programs and data too. Otherwise your applications will fall out of sync with their corresponding Registry entries, and your crucial programs are likely to refuse to run after you've restored a backup.

We recommend that you back up

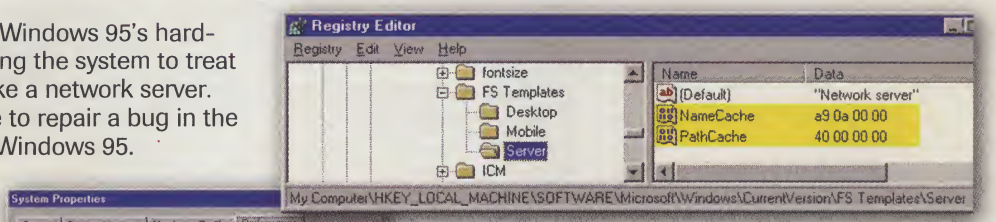
Checklist: Quick Inspection

Here's a shortlist of the changes you should make to all new Windows 95 installations.

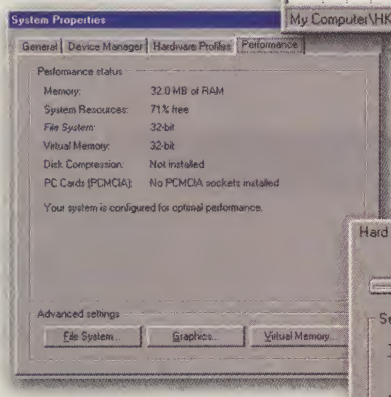
- From any folder window, choose View, Options, and click on the View tab. Click on the Show All Files button. Uncheck the box that hides MS-DOS file extensions. Choose View, Options, and select the single-window choice on the Folders tab.
- To curb the Recycle Bin's appetite, right-click on its icon and choose Properties. On the Global tab, check Use One Setting for All Drives, and adjust the slider to 5 percent or less of each disk.
- Start the Control Panel Multimedia applet, click on the Audio tab, and check the box that adds a volume control to the Taskbar.
- Download and install the Font Smoothing utility from www.microsoft.com/truetype/grayscal/smoother.htm. Open Control Panel, Display; on the Plus tab, turn on the option Show Window Contents While Dragging.

STEP BY STEP SPEED UP YOUR HARD DISK

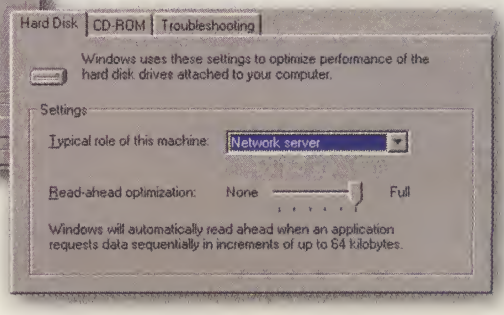
You can speed up Windows 95's hard-disk access by telling the system to treat your desktop PC like a network server. But first you'll have to repair a bug in the original version of Windows 95.



Step 1: Start the Registry Editor and search for the key shown in the status bar. The values you see here *are* correct; but because of a bug in pre-OSR2 versions of Windows 95, these entries may be reversed. Edit the registry if necessary.



Step 2: Open the Control Panel System applet and click on the File System button.



Step 3: Choose Network Server from the drop-down list and click on *OK*.

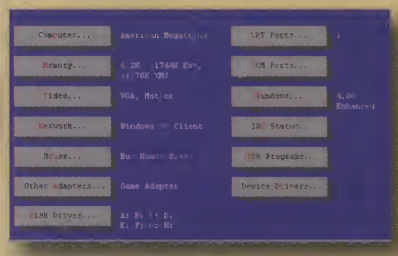
the Registry—the files C:\Windows\System.dat and User.dat—whenever you do a complete backup. The Microsoft Backup program automatically copies these files when you use the Full System Backup file set. When these files are included in your backup set, you can restore all your Registry settings along with your system, application, and data files, should a catastrophe strike. Remember that the *.dat files will reflect Windows' status at the time it was backed up, and if you've installed new peripherals or changed any settings for existing hardware in the interim, you may encounter problems when you restore the older Registry settings.

It's also possible to back up the entire Registry to a text file, although we don't recommend this technique. The Windows Registry Editor (Regedit.exe) will not restore these files properly while Windows is running; and running Regedit in MS-DOS (real) mode with the /C switch doesn't reliably reconstruct the Registry. It's much easier to simply copy System.dat and User.dat to a safe place.

You can replace a corrupted Registry with backup copies by simply booting to an MS-DOS command prompt. If the Registry problem occurred immediately after you attempted to add a new device, remember that Windows creates backup copies of System.dat and User.dat each time it starts successfully. Those files are called System.da0 and User.da0, respectively; they're stored in the Windows directory along with their .dat counterparts. To copy the *.da0 backup files over the *.dat originals, boot to a command prompt, then use the ATTRIB command to remove the read-only, system, and hidden attributes from the old and new files (type ATTRIB -R -H -S C:\Windows*.da*). Rename the .dat files using the .bak extension, and then rename the .da0 files using the .dat extension. Finally, use ATTRIB +R +H +S to reset the attributes to the new files, and reboot.

Instant Answer: IRQ Help

It's old, it's far from perfect, and it's buried in the Windows 95 CD—but the Microsoft Diagnostics program is a source of information you can't always find elsewhere. And because it's a DOS program, it's especially handy for diagnosing IRQ conflicts that keep you from starting Windows at all. Right now, while you're thinking about it, find Msd.exe in the \Other\Msd folder on the Windows 95 CD-ROM and copy it to a bootable floppy. You'll thank us later.



Fix Broken File Associations

I inadvertently associated an extension with the wrong application, and I can't figure out how to remove it.

Sooner or later it happens to everyone. Suddenly all your files that end with the XYZ extension want to open in Excel, right? You can try to fix the problem using the Windows Explorer's File Types dialog box, but that tedious process offers no easy way to remove a single extension from a registered file type without making you delete the entire entry and start over.

Instead, open the old-fashioned Windows 3.1–era File Manager. You won't find it on any menus in Windows 95 or NT 4.0—instead, go to the Run dialog box, type Winfile, and press [Enter]. Choose File, Associate, and fill in the box at the top using the extension that's giving you fits. Now scroll to the top of the list of file types and select (None); doing so completely removes the association from your system.

This technique is also convenient for restoring associations when a newly installed app hijacks a file extension. For example, Netscape Navigator and Internet Explorer routinely tussle over files that use the HTM and HTML extensions.

If you're a Win95 user, File Manager is a lousy tool for moving, copying, and especially renaming objects because it doesn't understand long filenames. The NT 4.0 version, on the other hand, is long filename–aware.

Instant Answer: Command It

Some tasks are easier and faster with good ol' DOS and its wildcards—ever try renaming a group of files using the Windows Explorer? Here are two ways to make life at the command line even easier. First, drag the MS-DOS Prompt shortcut from your Programs folder to the Start button so you can open a command window instantly. Second, get in the habit of running Doskey each time you open a command window—that way you can recall commands from the screen buffer and edit them if needed instead of tediously retyping them.

Long and Short of It

Windows 3.1 users have trouble with the short filenames that Windows 95 automatically creates from long filenames. Can we adjust the short names?

Sorry, no. The only way to change the short filenames Windows 95 and NT automatically generate is to use DOS-compatible 8.3-style names. The long-to-short translation process happens in the background and can't be changed.

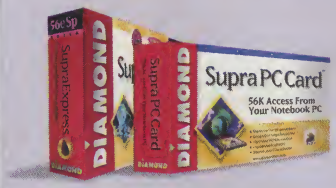


Presenting the 56K modems that didn't begin as 33.6 modems.

- NEW DATAPUMP & DAA
- FLASH ROM
- CUSTOMIZED FIRMWARE
- 4X SRAM PERFORMANCE
- DTE RATE TO 230 KBPS

"THE BEST COMBINATION OF FAST TRANSFER SPEEDS AND CONNECTION RATES"
- PC WEEK

Visit www.diamondmm.com/56now to win a SupraExpress 56 modem!



SupraExpress and Supra PC Card 56 modems. Unlike other 56K modems, Diamond Multimedia's affordable family of 56K modems were engineered from the ground-up to deliver the optimal 56K performance. Instead of rebuilding existing 33.6 modems, we designed totally new components for 56K. Our new datapump, digital signal processor, and crystal are all faster than ever before. We've also added four times more SRAM to speed the process and we've doubled the DTE rate for the highest possible throughput. Finally, customized firmware optimizes each modem's speed and its ability to connect and stay connected. So call 1-800-727-8772 or visit us on the Web for the facts. Then prepare yourself to experience the ultimate in 56K.

DIAMOND MULTIMEDIA

Accelerate your world.

SupraExpress and Supra PC Card are trademarks of Diamond Multimedia Systems, Inc. All other trademarks are the property of their respective owners. ©1997 Diamond Multimedia Systems, Inc. All rights reserved.

VideoDirector Studio 200™ from Pinnacle Systems

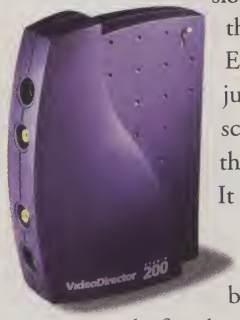
The World's Easiest Video Editor

Turning great scenes into great videotapes means editing, adding titles, transitions, effects and even voice-overs. Easy for professionals with a fortune in dedicated equipment. And barely manageable for computer experts who are willing to invest in expensive video capture cards, massive hard disks, and state-of-the-art PC's. But now for the first time this kind of power is available to regular folks who have no desire to spend hours installing computer cards or thousands in buying dedicated solutions. VideoDirector Studio 200 is an award winning home video editing solution that takes advantage of the equipment you already own: a camcorder, a VCR and an average Windows computer. Turn great footage into great videotapes in three simple steps.

1

AUTOMATICALLY FIND SCENES

You've just come back from vacation with three hours of tape. Sure you have some great scenes, but, as usual, you've got some long boring stuff that slows the whole thing down. Easy to solve—just play the scenes though the Studio Mixer. It automatically detects and marks the beginning and end of each scene, grabbing the first frame of every scene and remembering where it is on the tape. No other home video editing solution can do this.

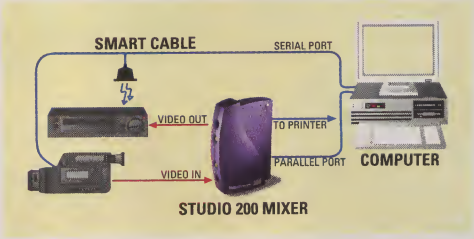


Only $299!

2

ORDER SCENES, ADD TITLE EFFECTS & TRANSITIONS

Now simply drag the image of the scenes you want to use in your final tape and drop them in the order you want. Now you can use some of the Emmy-award winning effects included in the box. Choose from over 100 wipes, fades and dissolves. Add translucent titles (anti-aliased for smooth edges) to show the places you went and introduce the people you met. You can even create a professional soundtrack with sound effects, music and narration.



VideoDirector Studio 200 connects to the PC, (even a 386!) camcorder and VCR you already own. There are no boards to install and you'll never fill up your hard drive with huge digital video files.

3

MAKE A VIDEOTAPE

The creative part is finished and all you need to do is make the final videotape. It couldn't be easier. Put a fresh videotape into your VCR and "Make Tape". VideoDirector Studio 200 has already memorized every scene and it finds each one, adds the effects you've specified and copies all of this to a new videotape, automatically. Most other PC-based editing solutions don't allow you to output your creations to a videotape—the only way to view them is on a PC! And unlike most PC editors, VideoDirector never reduces image quality by capturing your videos at low resolution or compressing them. With VideoDirector Studio 200 you can create high quality, full resolution videotapes that anyone with a VCR can enjoy!

Order VideoDirector Studio 200 today.
Call (888) 484-3366 or (415) 237-1681, ask for operator 22 or fill out this coupon

☐ Yes. Send me VideoDirector Studio 200 for $299, plus shipping (include tax if necessary*).

VideoDirector, $299.00	$ _____
State sales tax*	$ _____
Freight**	$ 10.00
Air Freight ***	$ 20.00
Total	$ _____

* CA 7.75%, NJ 6%, CT 6% WA 7.5%
**Please allow 1-2 weeks for delivery
***48 hour delivery

mail coupon to: PO Box 60746
Sunnyvale, CA 94088

Method of Payment (check one)
☐ Check or money order (payable to Pinnacle Systems, Inc.)
☐ Visa ☐ MasterCard ☐ Discover ☐ AmEx

credit card number

expiration date

cardholder name (please print)

cardholder signature

VIDEO camera AWARDS
Windows EXPERTS CHOICE
BEST OF THE YEAR 1997
BEST OF 1997 RadioVision
VIDEO GRAND PRIX AWARD AudioMedia

PINNACLE SYSTEMS
http://www.videodirector.com

© 1997 Pinnacle Systems, Inc. VideoDirector Studio 200 is a registered trademark of Pinnacle Systems, Inc. All other trademarks are the property of their respective owners

Circle 348 on reader service card.

NT Speed Boosts

Ghosts in the Machine?

My hard disk bursts into activity at regular intervals, slowing performance. How do I find out which app is responsible?

Next time your hard disk begins chattering away for no apparent reason, don't call Ghostbusters—instead, right-click on the Taskbar and choose Task Manager from the shortcut menu. The Processes tab shows a list of all the programs and services running on your system—even those that aren't visible on the Taskbar. The CPU column shows the percentage of CPU capacity each process is using. Don't be surprised if you see this number spike well above 90 percent for a single process.

Click on the CPU heading to sort by that column, then see which process floats to the top of the list. Under normal circumstances, the System Idle Process should occupy the top spot. We've seen Internet Explorer consume excessive resources, especially when it's hitting a particularly active Web page. If Office 97 is installed on the affected PC, the culprit could be the Find Fast utility, which creates and manages file indexes in the background.

More Megabytes, Please

I'm running out of disk space. Does Windows NT support disk compression, or is it time to buy a bigger drive?

NT supports compression, but only on disks formatted using NTFS. If you formatted a disk partition with FAT, you're out of luck, and NT won't recognize a DriveSpace-compressed volume under any circumstances. Now the good news: NTFS's compression allows you to squeeze slack space out of a single folder, an entire drive, or any number of individual files.

To use NTFS compression, open an Explorer window, select the drive, folders, or files to be compressed, right-click, and choose Properties. Check the Compress box at the bottom of the General tab and click on OK. To see at a glance which files are compressed, choose View, Options, click on the View tab, and select Display Compressed Files and Folders with Alternate Color.

Size Up Your Paging File

NT is constantly warning me that I'm low on virtual memory and forcing me to close running programs. I've added as much RAM as my budget will allow. What next?

When NT runs out of physical memory, it turns to virtual memory, swapping data out of RAM and into a paging file on your hard disk. The default virtual-memory settings are maddeningly conservative—only 11MB to 12MB greater than your physical memory. Thus, if you have 32MB of RAM, you'll have a 43MB paging file, for a total of 75MB of usable system memory. As you've discovered, that's not enough. Here's how to add more:

Make sure you have 100MB or more free disk space on each physical drive in your system. Next, multiply the amount of physical RAM in your system by 2 (that's the preferred size of your new paging file). Open the Control Panel's System applet, select the Performance tab, and click on the Change button in the Virtual Memory section.

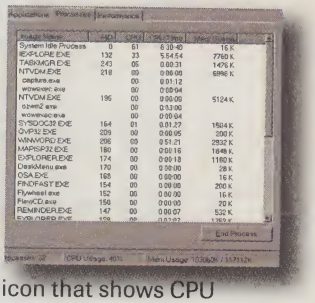
If you have only one drive, enter the number you calculated in the Initial Size and Maximum Size boxes. If you have two drives of roughly equal speed, split the preferred size in half and create a paging file on each drive. On a system with 32MB and two drives, you'd use a 32MB paging file on each drive. Click on OK and reboot. If you get out-of-memory messages, up the paging file size to 2.5 or 3 times the physical RAM.

Instant Answer: What's Up, Dot?

There's plenty of activity going on while Windows NT 4.0 goes through its boot process. For example, shortly after the system starts, you'll see a procession of dots that moves from left to right across the screen. Each dot represents a driver loading into memory. After the system starts the NT kernel and switches to a blue screen, you'll see more dots, appearing in groups of three—one for each disk volume as it initializes.

Instant Answer: Task Boss

To pop up the NT 4.0 Task Manager in a hurry, remember this keyboard shortcut: Ctrl-Shift-Esc. It's a useful way to spot hung programs, analyze memory use, and quickly identify performance problems. When you're through using Task Manager, don't close it; instead, click on the Minimize button and watch it shrink to a tiny Taskbar icon that shows CPU usage at a glance. Double-click on that icon to instantly restore the Task Manager window.



Windows and the Web

All things considered, it's amazing that Windows 95 and the Internet work so well together. After all, a mere two years ago, when this operating system first appeared, the Internet was still primarily the province of techies. Today the Internet is woven into the fabric of our everyday lives, Netscape and Microsoft have each issued major upgrades to their browsers, and the Web has made floppy disks nearly obsolete. There are dozens of free patches and updates designed to help Windows 95 and the Internet get along better. In this section we tell you exactly where you can find them.

Dial Direct to the Net

Every time I connect to the Internet using my dial-up account, Windows insists on presenting me with a logon screen that asks for my username and password. I never change them. Can I get rid of the screen?

Yes, you can connect to the Internet hands-free. The solution is packaged in a most unlikely place—the ISDN 1.1 Accelerator Pack. You say you don't have an ISDN telephone line and never intend to order one? It doesn't matter—download this free Windows 95 update from www.microsoft.com/windows/software/isdn.htm and install the Accelerator Pack anyway. (If you do have an ISDN line, then this update is a must, thanks to its ability to combine two 64K channels into a single high-speed connection.)

The complete ISDN Accelerator Pack includes several important upgrades to Windows 95's Dial-up Networking (DUN) features. For example, there's an enhanced "connected" icon that appears in your System Notification Area at the right of the Taskbar—no more blinking red and green dots. After you've successfully connected to an ISP, double-click on this icon to see detailed information about your connection.

Once you've updated your DUN components, here's how to force Windows to bypass the logon screen each time you connect: Click on the Start button, choose Programs, Accessories, and open the Dial-Up Networking folder. Choose Connections, Settings. Clear the box marked Prompt for Information Before Dialing. If you want Windows to redial automatically when it encounters a busy signal, check the Redial box and adjust the settings in that area as well. Click on OK to save your changes. From now on, opening your Web browser or double-clicking on a "connectoid"—believe it or not, that's the official name for the icon that stores the details of each dial-up connection—will hook you up to the Internet without any additional work.

Exchange Inbox or Internet Mail and News?

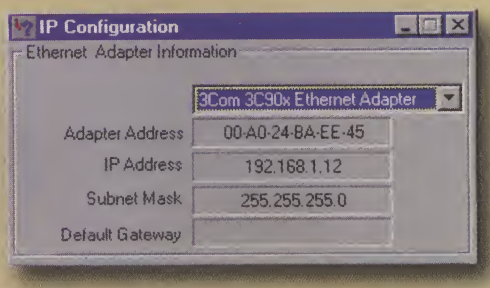
Which mail client should I use with Windows?

According to Microsoft, the Exchange Inbox program originally included with Windows 95 is now officially an orphan. (If you run NT 4.0 or OEM Service Release 2, or if you downloaded the update from Microsoft's Web site, you may know this program as Windows Messaging.) Good riddance, too—this mail and fax program is difficult to set up, notoriously slow and bug-ridden, and downright painful to use. In fact, the only reason to continue using Exchange Inbox is if you use a third-party fax or mail add-on program that requires it.

Windows Messaging will continue to appear in future versions of Windows 95 and NT, mostly for compatibility with older software. But if all your e-mail comes via a standard SMTP server, the Internet Mail and News program (bundled free with Internet Explorer 3.02) is a better choice. It's faster and compatible with more Internet standards—and as you've already seen, *it's easy to set*

Instant Answer: IP, Up Close

Every so often you need detailed information about your Internet connection. On many systems, for example, a DHCP server will assign you an IP address every time you log on, and you may need that address to make a TCP connection with a distant server. Fortunately, Windows 95 includes an undocumented utility that shows you all the normally hidden details about your Internet connection. Just click on the Start button, choose Run, type winipcfg, and press Enter.



up and use. It's also filled with useful features, including an Inbox Assistant that sorts your mail for you based on rules you define. The e-mail program in Internet Explorer 4.0 has a new name, Outlook Express, to emphasize its compatibility with the Outlook program included in Office 97. The new version supports multiple Internet mailboxes and effortlessly imports messages and address books from other e-mail programs including Qualcomm Eudora, Netscape Mail, and Windows Messaging. It also gets a new look that closely resembles its full-featured namesake.

If your company uses Exchange Server, Outlook Express is not an option. Instead you'll need a full-fledged Exchange client such as Outlook. Fortunately, you won't have to purchase copies of Office 97 just to get Outlook; Microsoft plans to include the full program as its default mail client with the next version of Exchange Server.

Firewall Fixes

I use Internet phone and chat programs at home, but they don't work at the office. My company uses a firewall and a proxy server. Is that the problem?

On corporate networks connected to the Internet via a firewall, you'll need your system administrator's cooperation before you can make certain types of software work—and even then, you might not be able to make the connection. Here's why:

At home your computer is connected directly to the Internet via an ISP, and anyone on the Internet can request a connection to your machine using its IP address and common communication channels called ports. When you use VocalTec Communications' Internet Phone program, for example, your computer talks directly to another computer running the same

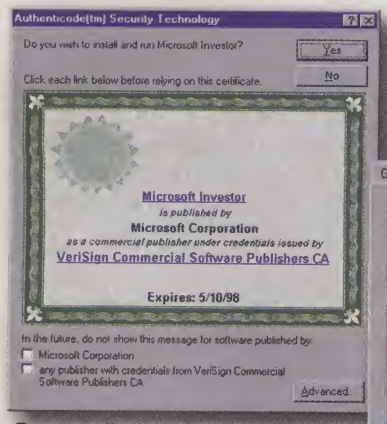
Checklist: Quick Connect

If you're still running the original version of Windows 95, your Internet connections are neither fast nor safe.

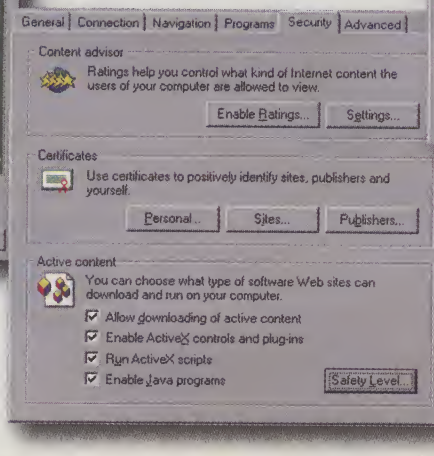
- Install the WinSock update (WSOCKUPD.EXE) to improve performance.
- Update the Ping utility (PINGUPD.EXE) to prevent sudden network lockups.
- Get the fix that prevents system crashes from out-of-bounds packets (VTCPUPD.EXE).
- Fix several flaws in Windows 95's password support (NWREDUP4.EXE and VRDRUPD.EXE).
- Make sure the most recent security patches are installed in any Web browser you use.
- You'll find these and other crucial patches at www.microsoft.com/kb/softlib/default.asp. Choose the option to see all files for a product, select Windows 95 from the drop-down list, and click on the link for Miscellaneous Files and Utilities.

STEP BY STEP INTERNET EXPLORER SECURITY

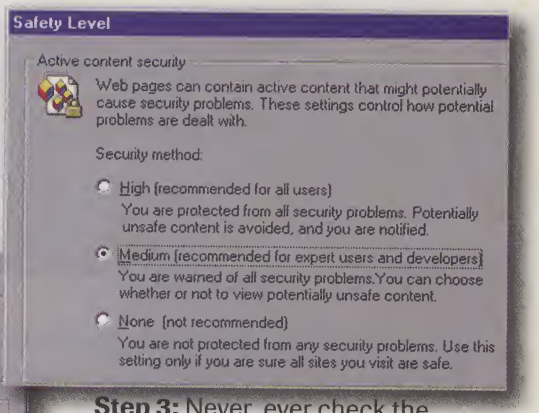
ActiveX controls, Java applets, and scripts of all kinds are potential security threats. Here's how Internet Explorer users can manage risks.



Step 1: Follow the links to find out who "signed" each ActiveX control.



Step 2: For maximum security, clear all of these checkboxes.



Step 3: Never, ever check the bottom option, which allows applets to run without warning.

software, establishing connections over TCP ports 1490, 6670, and 25793 and UDP port 22555.

On your corporate network, the firewall blocks all connections from the Internet to keep machines inside the firewall safe. If you also use a proxy server, outside computers can't see your machine's IP address and can communicate only with the proxy machine, which manages traffic according to your company's security policies. Before you can use software that requires TCP connections, you have to find out which ports the software uses, and then you have to convince your system administrator to allow those types of connections to pass through your firewall. Don't be surprised if your security policy prohibits opening those ports.

In fact, some firewalls support a limited number of protocols and cannot handle TCP connections. For example, if your company's firewall consists of a plain-vanilla Web proxy server with no support for other types of connections, you will not be able to use most types of TCP/IP software through the firewall.

Deep-Six IE

I prefer Netscape Navigator, but I can't get rid of Internet Explorer. It isn't on the Control Panel's Add/Remove Programs list.

You must be running OSR2 or NT 4.0. In both cases, Microsoft conveniently forgot to put its Web browser and the Internet Mail and News program on the Add/Remove list. Fortunately, there's an easy way to get rid of either or both programs: Just download the most recent version of Internet Explorer 3.*x* from www.microsoft.com/ie/download and install the software. Blast through the installation process as quickly as you can, accepting all the defaults. When you're finished, both Internet Explorer and Internet Mail and News will be on the Add/Remove list.

Explorer Security Tips

I hear dire security warnings about ActiveX. Should I take these warnings seriously?

Yes, you should. ActiveX controls are programs that run on your local PC, with full access to all the resources available on your network. They can even run without your knowledge. Although there have not yet been any reports of dangerous ActiveX controls affecting Internet users, the underlying architecture has gaping security holes. Your decision has to be a balancing act: How much potential for security violations are you willing to tolerate in exchange for sophisticated, active Web pages?

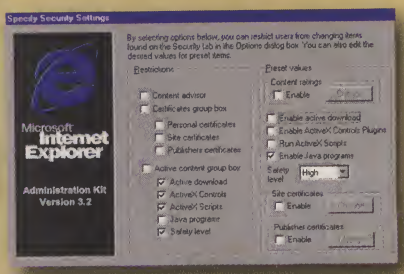
At the very least, you should set Internet Explorer to its built-in Medium Security level, which lets you choose whether to install ActiveX controls that have not been digitally signed. The default setting is High Security, which requires that all ActiveX controls be signed. To adjust security levels, choose View, Options, click on the Security tab, and click on Safety Level. Return to the Security tab and click on the Publishers button. Remove the entries for any publishers from the list. Taking all of these precautions ensures that Internet Explorer will require you to issue an OK before downloading and using ActiveX controls.

You can increase your security level significantly if you're willing to completely shut down Internet Explorer's ability to download ActiveX applications and animations (such as scrolling text and rotating graphics). On the Security tab, uncheck the box marked Allow Downloading of Active Content. Note that if you have trustworthy ActiveX controls installed, they will continue to work. To disable all ActiveX controls and script-based applications, remove the checkmarks from the boxes labeled Enable ActiveX Controls and Plug-ins, and Run ActiveX Scripts.

To enforce the highest level of security, uncheck the Enable Java Programs box too. In theory, Java applets are less likely to pose security threats because they do not allow the same level of access to system resources as ActiveX programs. In practice, however, Java developers have identified several holes in its security model. The only absolutely safe alternative is to turn off Java entirely—thereby depriving yourself of Web-based Java applications.

Instant Answer: Be Safe

Worried about security on your network? Download the Internet Explorer Administration Kit from www.microsoft.com/ie/ieak. Lock down browser settings so users can't mess with them, and wrap up the entire package in a self-extracting, self-installing file. Amazingly enough, it all works as advertised, and it costs next to nothing—just the price of your Net connection.



Instant Answer: No Guessing

Tracking down Web performance problems can be a nightmare. Is your browser misconfigured? Is the site you're trying to reach simply overcrowded? Has your ISP skimped on routers and modems? To identify Internet bottlenecks, we recommend Net.Medic from VitalSigns Software (www.vitalsigns.com). It's well worth the $49.95 price.

New Release!

Find anyone, anywhere, with the new Select Phone.



DESIGNED FOR: Windows 95 & 3.1

Data Powerhouse!

Now with Data, Maps & more!

Meet the hot new Select Phone! We've captured 100% of published business and residential phone listing in the USA, ***plus*** over 30 million street segments on 9 CD-ROMs. Find any single or group of listings ten different ways, or import and display them on a highly-detailed map down to micro-street level. No question. This new Select Phone means business!

What's New!

More power, more value, more features, than any Phonebook on CD-ROM.

SEARCH
The best search engine in the business! Finds your listings 10 ways – in the blink of an eye!

NEIGHBORS
Gets you a list of neighbors on the same street, even in the same office or apartment building.

GEOTARGET
The "neighborhood" search tool! Find listings based on distance from any fixed point.

MAPPING
Import & display names and addresses onto street level maps for every city and town in the USA.

PRINTING
Print listings directly onto your envelopes and labels. Even prints barcodes!

EXPORTING
Export your data to nearly any word processor, spreadsheet, database or more.

Exclusive!

SelectLink ON-LINE SERVICES

THE FASTER, EASIER, MORE DIRECT WAY TO MINE THE WORLD WIDE WEB'S MOST DATA-RICH SITES!

With a single click, *SelectLink* hooks you into the Pro CD's Web site, with instant access to e-mail listings, financial data, corporate profiles, stock quotes, and more.

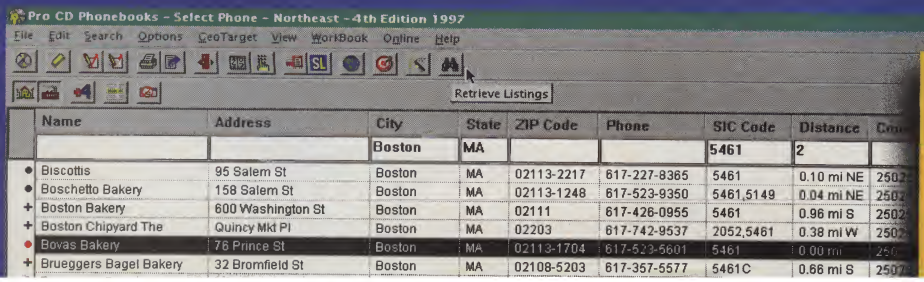
THE 411 LOOK-UP SERVICE THAT'S UPDATED EVERY DAY! ONLY WITH SELECT PHONE.

Want access to the most recent signups for phone service? SelectLink is your connection to the freshest phone listings – *for just pennies* – direct from phone companies to you! Only Select Phone with SelectLink brings these hot services to you.

Only $99

The Full Story

More data than ever! Get the most comprehensive background data for every business & residential listing, right on the CDs! The latest facts like total households, home values, income stats, and population demographics. For business listings, check-out SIC codes, stock ticker symbols – even Internet addresses!



	Name	Address	City	State	ZIP Code	Phone	SIC Code	Distance	Cro
			Boston	MA			5461	2	
•	Biscottis	95 Salem St	Boston	MA	02113-2217	617-227-8365	5461	0.10 mi NE	2502
•	Boschetto Bakery	158 Salem St	Boston	MA	02113-1248	617-523-9350	5461,5149	0.04 mi NE	2502
+	Boston Bakery	600 Washington St	Boston	MA	02111	617-426-0955	5461	0.96 mi S	2502
+	Boston Chipyard The	Quincy Mkt Pl	Boston	MA	02203	617-742-9537	2052,5461	0.38 mi W	2502
•	Bovas Bakery	76 Prince St	Boston	MA	02113-1704	617-523-5601	5461	0.00 mi	250
+	Brueggers Bagel Bakery	32 Bromfield St	Boston	MA	02108-5203	617-357-5577	5461C	0.66 mi S	2502

Order!

To get your own Select Phone, visit your local software retailer or order directly from Pro CD by calling **1-800-992-3766** and mention Media Code AS98E1AAC

Circle 274 on reader service card.

Introducing the G771.

The most brilliant way yet

to upgrade your system.



Introducing the ViewSonic G771 monitor.

After winning just about every award in the 17" (various viewable) category, our engineers have come up with another bright idea: The ViewSonic G771 17" (16.0" viewable) monitor. Its fine 0.27mm dot pitch creates brilliant screen images making it ideal for graphics, spreadsheets and word processing—as well as the Internet. And, its flicker-free 1,024 x 768 resolution at a refresh rate of 87Hz virtually eliminates eye strain and operator fatigue.

A hard worker around the office.

The G771 offers the most powerful combination of features available in its price range. It's both PC and Mac® compatible and features *Plug & Play* + technology that provides seamless auto-installation with Windows® 95. And, like all ViewSonic® monitors, the G771 is backed by a limited three year warranty*— the best in the monitor business.

To bring a touch of brilliance to your customers' system, start by recommending the ViewSonic G771, another advancement from the leader in the 17" (various viewable) market.

For the dealer nearest you, call ViewSonic at (800) 888-8583, ask for Agent 6677 or visit our website at: www.viewsonic.com.

Model	G771
CRT Screen Size	17" (16.0" viewable)
Dot Pitch	0.27mm
Max. Resolution	1,152 x 870 (Mac®) 1,280 x 1.024 (PC)
Recommended Resolution	1,024 x 768 @ 87Hz



ViewSonic®

See The Difference!

Circle 171 on reader service card.

(909) 869-7976 Fax: (909) 869-7958 • Internet: www.viewsonic.com • Specifications subject to change without notice • Copyright © 1997 ViewSonic Corporation, All rights reserved.
Corporate names and trademarks stated herein are the property of their respective companies. *The 29GA has a one year limited warranty on CRT, parts and labor.

NT and the Internet

AutoDial with NT4 and IE3

I want to dial my ISP automatically every time I launch Internet Explorer. I used the Internet icon to set up AutoDial with Windows 95, but I can't find the equivalent settings in NT 4.0.

Both Windows 95 and NT 4.0 offer a Dial-Up Networking feature, but the name is about all they have in common. As you've seen, setting up AutoDial with an NT system is much more difficult than with Windows 95. We'll assume you've correctly set up Dial-Up Networking and created a phonebook entry that successfully connects to your ISP. To enable AutoDial, you have to order the Remote Access Service to automatically dial the page you've established as your browser's home page. Follow these three additional steps:

First open the Control Panel Services applet and make sure both the Remote Access AutoDial Manager and Remote Access Connection Manager services are installed and started.

Next enable AutoDial by location. Open the Dial-Up Networking folder (you'll find it in the My Computer window). Select the Phonebook entry for your ISP, click on More, User Preferences, and click on the Dialing tab. Make sure there's a check mark in the box next to your current location. Adjust the redial options below and click on OK.

Finally, click on the Dial button to connect to your ISP. Open the Web page you'll use as your start page and choose View, Options. Click on the Navigation tab, and in the drop-down Page list click on Start Page; click on the Use Current button, then click on OK to save your changes. The next time you open your Web browser, NT will prompt you to dial your ISP if you're not already connected.

Slash ISP Costs

We have a mix of Windows 95 and NT machines on our network, but all our users still dial up to the Internet individually. What's the safest, least expensive way to connect our network to the Internet?

All those individual dial-up accounts rack up charges fast, don't they? Actually, the individual ISP accounts are just the start. Each user needs an analog phone line and a modem, and we haven't even mentioned the productivity that's lost each time those users have to wait for the modem to make a connection.

Even small networks can save a small fortune by setting up Microsoft Proxy Server on an existing NT Server and funneling all Internet access through a single account on that machine. True, the proxy software costs $995, but you'll be able to eliminate all but one of those individual dial-up accounts, and you can shut down the extra phone lines for good. With the money you save, you can probably upgrade your Internet connection to ISDN or better. And the proxy software adds rudimentary firewall protection that makes life difficult for hackers who want to poke around your networked PCs. (Version 2.0, which should be shipping by the time you read this, includes more sophisticated firewall protection.)

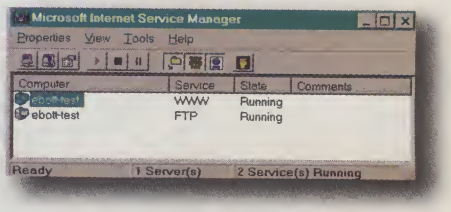
There are lots of Web proxy servers to choose from, but we prefer Microsoft's because it includes a WinSock proxy that lets clients use the proxy machine for non-Web Internet connections, including FTP, Telnet, and POP3/SMTP mail. It supports AutoDial, so you don't have to keep the Net connection open around the clock. Documentation is excellent and setup is easy even if you don't have a lot of networking experience. Best of all, you can download a free 60-day evaluation copy of MS Proxy Server from www.microsoft.com/proxy.

Instant Answer: IP Info, NT-Style

Windows 95 users can get a snazzy graphical display of IP information, but NT users have to dust off the command line to get the same data. To see your IP address, subnet mask, default gateway, and other essential information, open a Command Prompt window and enter IPCONFIG. Add the /ALL switch to see even more details.

Instant Answer: Serve It Up

Go ahead—create your own Web site. NT Server contains a full-blown copy of Internet Information Server, but NT Workstation includes Peer Web Services, which includes Web publishing and an FTP server, as well as the administrative tools you'll need to manage them. To install the new services, open Control Panel, double-click on the Networks icon, and click on the Services tab. Click on the Add button and choose Peer Web Services from the list.



Up-to-date Windows

If you want to keep Windows running at peak efficiency, you have to download and install patches regularly and keep an eye on Microsoft to make sure your system is up-to-date. In fact, Windows performance fanatics reinstall the operating system and all apps from scratch at least once a year, just to remove all outdated DLLs and obsolete apps. Spend a bit of time documenting your Windows setup and organizing patches, and you'll save hours of painful reconfiguration. You don't need the organizational skills of a Felix Unger, either—just create a directory for files you download and a text file with notes about your configuration.

Which Windows 95 Is This?

How can I tell which patches and updates are installed on a given Windows 95 machine?
There's only one sure way to determine which updates are installed on a given PC—use Microsoft's official Windows 95 Update Information Tool, Qfecheck.exe. (*QFE* stands for Quick-Fix Engineering, the Microsoft team in charge of developing Windows bug fixes.) Download the utility from one of the links at www.microsoft.com/kb/articles/q145/9/90.htm; the one-button installation routine adds an icon to the System Tools group under Accessories on your Program menu.

The utility takes a while to complete its search through the Registry and the Windows and System folders, but the results are impressive. If an updated file isn't in place or if there's a mismatch between the version stored on disk and the information in the Registry, you'll know about it. Alas, there's no way to print out or save information for each system, which would make it easier to compare configurations at a glance.

Crack the Code

My hard disk crashed, I need to reinstall Windows, and I've lost the CD key. Now what?
When you install Microsoft software, the Setup program usually asks you to enter a serial number. If you can't come up with the right number, you can't go any further. For retail versions of Windows 95, Microsoft Plus, and Office 95, this serial number consists of 10 digits, divided into two groups of 3 and 7 digits, respectively. The Office 97 and FrontPage 97 Setup programs ask you for 11-digit CD keys, broken into 4- and 7-digit segments. The OSR2 version of Windows 95 and OEM versions of Windows NT 4.0 use a much longer CD key—22 digits in all, plus the letters *OEM*. You'll find the 10- and 11-digit keys on a sticker glued to the CD jewel box; the longer OEM codes are typically printed on the Certificate of Authenticity glued to the front cover of the software manual.

There are a relatively small number of valid serial numbers, and any key that matches the Setup program's algorithm will work just fine. If you can find the CD key for any program that uses the same key format, it will allow you to finish Setup. Finding a functional CD key doesn't mean the software is free, however; before you can legally use any software, you must have a license.

Because it's easy for CDs to become separated from their original jewel boxes, it's always smart to write the CD key down in a safe place—we recommend that you write each of these important serial numbers on an adhesive label and stick it directly on the PC's case. If you copy the original Windows or Office distribution (CAB) files from the CD to a hard disk, save the keys in a text file in the same directory.

Give Win95 the Boot

I just bought a new hard drive, and I want to use the new drive as my Windows 95 boot drive—without reinstalling all my software.
This task is not for amateurs. Unless you're thoroughly comfortable with system-level hardware and software

Instant Answer: Expert Info

To make the transition from mere user to Windows Jedi knight, you must master the ultimate collection of Windows information: the Microsoft Technical Support Knowledge Base. Each KB article ranges from one paragraph to several pages, with workarounds, explanations, and step-by-step instructions for common problems and tasks—and none of it is *in* the official instruction manuals. Use the article number if you know it (Q126855 explains Windows 95 support for large IDE hard disks, for example) or narrow your search with keywords. Start your journey at www.microsoft.com/kb.



changes, stop right now—take your system to a qualified computer repair shop and have the work done there instead. Whether you do it yourself or have someone else handle the work, take these crucial precautions before upgrading. First do a complete backup of all your existing files; if your backup program includes a verify option, use it. Next create a Windows 95 start-up disk, add the real-mode CD-ROM drivers, and make sure that you can boot your system and access your CD-ROM drive using that floppy disk. Finally, if your system BIOS requires that you enter detailed information for hard drives, make a note of the CMOS settings for the old and new drives.

Now you're ready to begin the three-step process:

Step 1: Install the new hard drive as drive D:, leaving the old drive as your boot (C:) drive. Partition and format the new drive according to the manufacturer's instructions.

Step 2: Restart the computer and press F8 when you see the Starting Windows 95 message. From the start-up menu, choose the Command Prompt Only option. Copy all files from your old hard drive to the new one using this DOS command: XCOPY C:*.* D:\ /E /H /K. (The /E switch copies all subdirectories, even empty ones; /H copies hidden and system files; and /K transfers attributes with the files.)

Step 3: Turn off your computer and swap the C: and D: drives. With IDE drives, this step may require resetting the master and slave jumpers on the drives themselves, then resetting the CMOS setup values. With SCSI drives you will have to reset the SCSI IDs to tell the system which one is the boot drive. Boot up from your start-up disk, and at the A: prompt type SYS C:. Remove the boot disk, restart your computer, and you should boot straight into

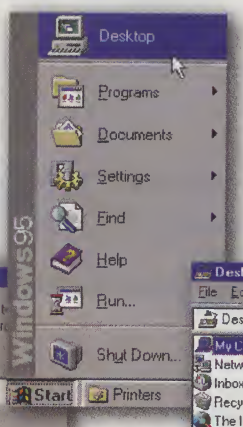
Checklist: Smart Manager

To keep Windows running smoothly, organize your collection of drivers, patches, and downloaded utilities.

- If you have a spare drive (an obsolete model in the 400MB-to-800MB range will do), dedicate it to storage of distribution files so you don't have to hunt for floppies, CDs, or updates.
- Copy the Windows 95 distribution (CAB) files from the CD to your hard disk. If your system requires any kind of special attention at setup time, make a note in a Readme file here.
- Create a folder called Software with a separate subfolder for each upgrade or app. Limit each folder name to eight characters.
- Does Setup require a serial number or other code? Save it in a text file in the new folder, with a descriptive name like Keycode.txt.
- Move each update into its own folder. Decompress if necessary. If there's a Readme file, store it there too. Regularly back up the entire collection to tape or a network server.

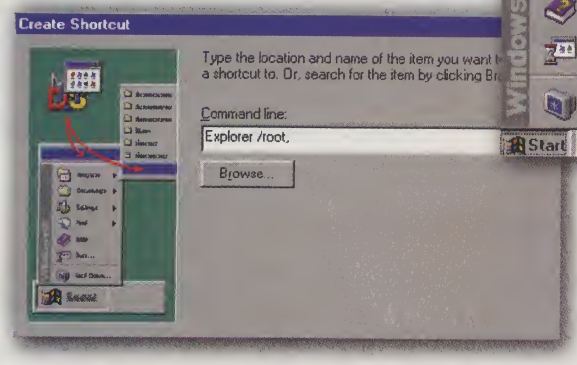
STEP BY STEP PUT YOUR DESKTOP ON THE START MENU

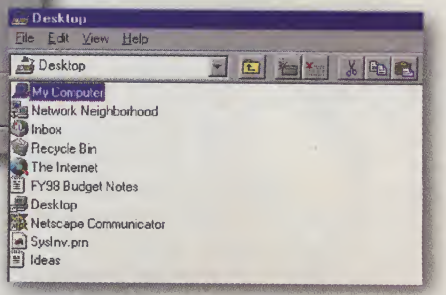
How do you get to the Windows Desktop to use your document and program shortcuts when it's covered with other windows? Alt+Tab will cycle through the running applications, but there's no easy way to get to the Desktop without minimizing all those windows. The solution: Put a shortcut to the Desktop on your Start menu, where it's always available.



Step 2: After you drag the shortcut and drop it on the Start button, the Desktop icon appears at the top.

Step 1: Right-click on the desktop and choose New, Shortcut. Type the command Explorer/root, including the final comma. Name the shortcut Desktop.





Step 3: Click on Start and choose the Desktop shortcut to open a window containing all the files, shortcuts, and system objects on your Desktop.

Windows using the new hard disk.

If something goes wrong—and it may—your old C: drive is still intact; you haven't made any changes to it. Swap the drives back, delete all files from the new drive, and follow Microsoft's officially supported (and *much* more complex) procedure, detailed at www.microsoft.com/kb/articles/q166/1/72.htm.

Fast Facts About OSR2

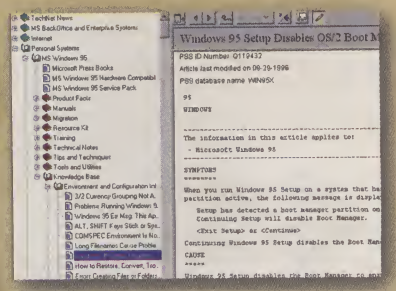
Can I upgrade my original version of Windows to the newest upgrade, OSR2? Should I even consider it?

Microsoft released an update to Windows 95 in August 1996, exactly one year after shipping the original version. Officially known as OEM Service Release 2 and commonly called OSR2, it consists almost exclusively of new code designed to support hardware that didn't exist when Windows 95 was first released. OSR2 is not available as a retail package and can be purchased only with new hardware. Many (but not all) new PCs sold after late 1996 include OSR2, but it's rarely advertised. To see whether a system includes OSR2, right-click on the My Computer icon and look at the General tab. OSR2 identifies itself as Microsoft Windows 95/4.00.950 B.

Besides incorporating many patches and updates that you can download on your own from Microsoft, OSR2's primary attraction is its optional support for FAT32, a file system that reduces slack on hard disks and lets you create disk partitions larger than 2GB. With FAT32, you can easily reclaim 20 percent of a large hard drive's capacity, with no additional changes in hardware. There are drawbacks to installing OSR2, however: Because the code was designed for new systems only, there's no upgrade option in the Setup menu, and Microsoft doesn't offer technical support. Installing OSR2 (or turning on FAT32 support if the manufacturer disabled it) may invalidate your hardware warranty. DriveSpace disk compression isn't supported with FAT32, and if you dual-boot Windows NT 4.0 on the same system, you won't be able to use a FAT32 drive. Some disk utilities will not work with OSR2, although many manufacturers have upgrades. And while OSR2 fixes a small number of bugs in Windows 95, FAT32 appears to be incompatible with most original Windows 95 disk utilities and a small number of applications.

Instant Answer: Tech Know

Do you troubleshoot Windows for a living? (Or does it just seem that way sometimes?) Then you absolutely, positively need a subscription to Microsoft TechNet. Each month you get several CDs' worth of essential information, including the complete Knowledge Base, resource kit updates, white papers, service packs, patches, and drivers. An Explorer-style interface lets you browse or search with ease, and it's way faster than the Web. At $299 a year, it's Microsoft's biggest software bargain.



In Search of OSR2

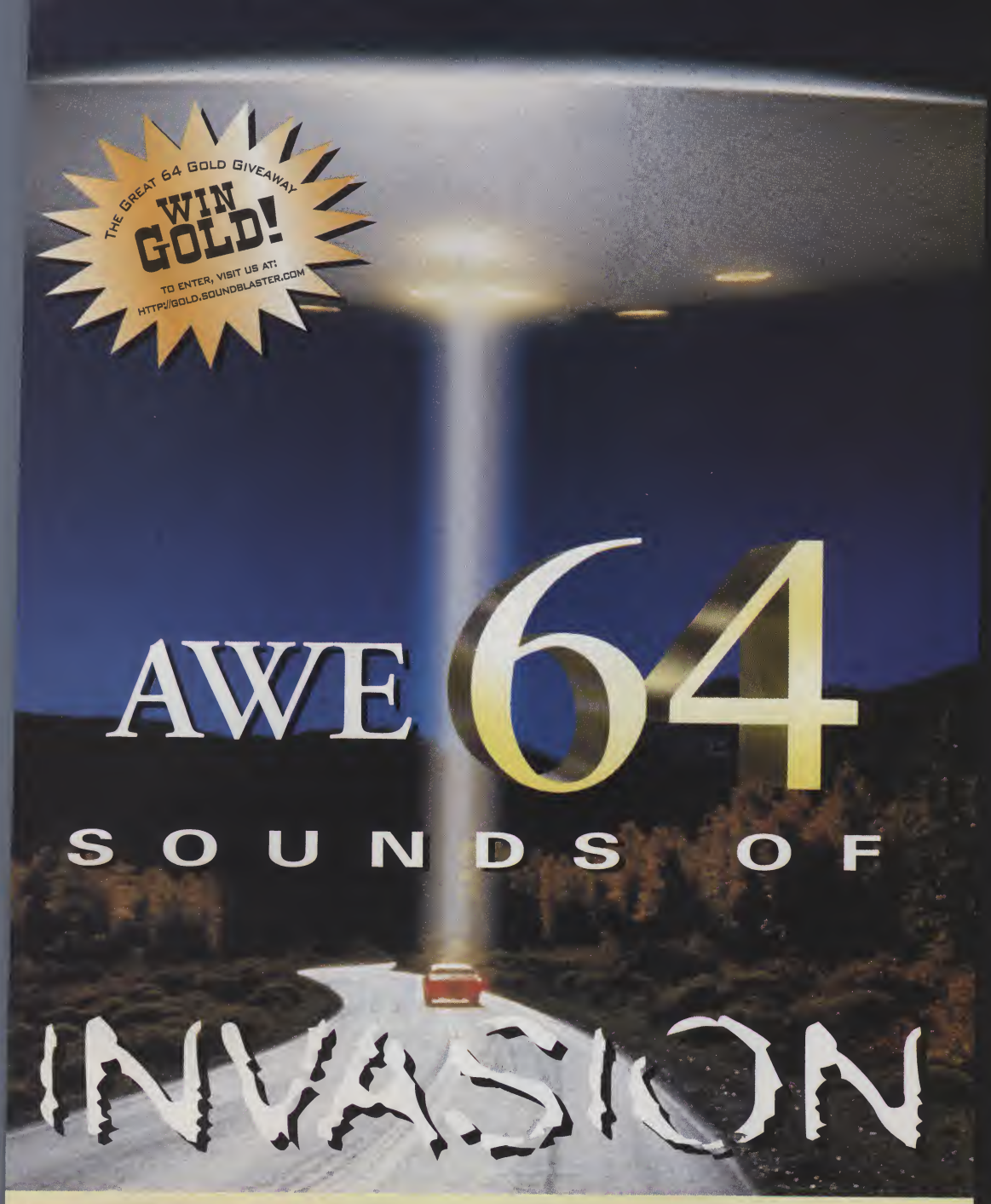
OK, I understand all the risks, and I still want to upgrade to OSR2. How do I do it?

Short of buying a new PC, it isn't easy. First you have to find a copy. Microsoft distributed a CD containing OSR2 to Microsoft Developer Network (MSDN) Professional Level members last year. If you don't have the MSDN CD and don't want to buy a new PC, some retailers will sell OSR2 bundled with hard drives or motherboards. Sean Erwin Consulting, for example, offers a full range of hardware upgrades—a full price list is available at 204.212.128.223/price.html. Expect to pay $109 or more for OSR2 in addition to the price of the hardware itself.

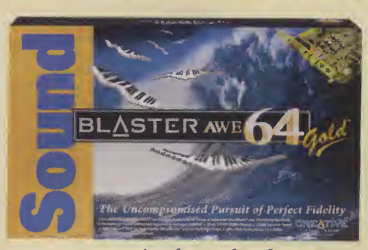
If you're installing from scratch, you'll probably want to format your C: drive using FAT32, even though it deletes all the data on the drive. To do so, boot with a floppy disk that includes your CD-ROM drivers. Insert the OSR2 CD, and run Setup. When you're asked if you want a start-up disk, say yes. After you have the start-up disk, click on Cancel. Boot from this new disk and run FDISK and FORMAT on your C: drive. Then reboot from the original disk and complete the installation. If you don't want to use FAT32, there are several undocumented ways to install OSR2 as an upgrade over your current copy of Windows 95. Full instructions are at www.users.cts.com/king/s/serwin/osr2.html.

Instant Answer: Registry Rules

Follow two simple setup rules when installing a new piece of software. First, when a Setup program suggests a location to store its program and data files, accept the default folders whenever possible. Sloppy programmers often hardwire registry entries and uninstall routines to specific locations—change the defaults and you increase the chances you'll be bitten by a setup bug later. Second, when the setup program suggests a default location whose name contains a space—such as any folder in the Program Files hierarchy—tell Windows to use the folder's short name instead. In place of C:\Program Files\Microsoft Office, for example, type C:\Progra~1\Micros~1.



1. "We Come In Peace."
2. Blasting Ray Guns.
3. People Screaming.
4. "You Must Believe Me!"
5. Exploding Buildings.
6. Whirring Space Ships.
7. Brains Being Sucked.
8. Bones Crunching.
9. Aliens Phoning Home.
10. Metallic Scraping.
11. Cars Crashing.
12. Kidneys Bursting.
13. Insertion of Probes.
14. Heads Exploding.
15. "Run for Cover!"
16. "Warning."
17. Aliens Melting.
18. Pods Hatching.
19. Destroying the Monster.
20. Buildings Imploding.
21. Spaceships Docking.
22. Boiling Flesh.
23. "Mayday, Mayday!"
24. Exploding Spaceship.
25. People Running.
26. "I saw a UFO!"
27. Planes Taking Off.
28. "We're at DefCon 1."
29. Aliens Communicating.
30. Children Crying.
31. Slurp.
32. Clink of Autopsy Instruments.
33. Laser Swords Crashing.
34. "Hyperspace!"
35. Flesh Being Torn Off Bones.
36. "They're Coming."
37. Wailing Sirens.
38. "You Must Die."
39. "Beam Me Up."
40. Zap!!!
41. Air Locks Closing.
42. "Oh, My God!"
43. Lasers Charging Up.
44. "We Need More Power!"
45. Ray Guns Blasting.
46. Calling the Mothership.
47. Horns Blaring.
48. "We Won!"
49. "Lock on Target!"
50. Crystals Charging.
51. Area 51 Guard: "No Admittance."
52. Zap-Zap!
53. Warning Alarms.
54. Air Locks Opening.
55. "Set to Stun!"
56. "Red Alert!"
57. Shields Up.
58. Warp Speed.
59. "Blast 'em!"
60. Eyeballs Squishing.
61. Spaceships Cloaking.
62. Radar Ping.
63. "Fire at Will!"
64. "Take Me to Your Leader."



The **Sound Blaster® AWE64 Gold™** is ready to invade your multimedia PC. The Sound Blaster AWE64 Gold is simply the best sounding Sound Blaster ever. And it's designed specifically to upgrade your PC's multimedia audio system. Play back up to 64 simultaneous voices, and produce a richer, fuller sound that's out of this world. With 20-bit digital output, audio quality is uncompromised. And, of course, compatibility is assured because it's a genuine Sound Blaster. To listen to and learn more about the Sound Blaster AWE64 Gold contact us at:

www.SoundBlaster.com/sound/AWE64Gold.

© Copyright 1997 Creative Technology Ltd. Sound Blaster and the Creative logo are registered trademarks and AWE64 Gold, Creative WaveSynth/WG and E-mu 3D Positional Audio are trademarks of Creative Technology Ltd. All other names are property of their respective owners. All specifications are subject to change without prior notice. All rights reserved.

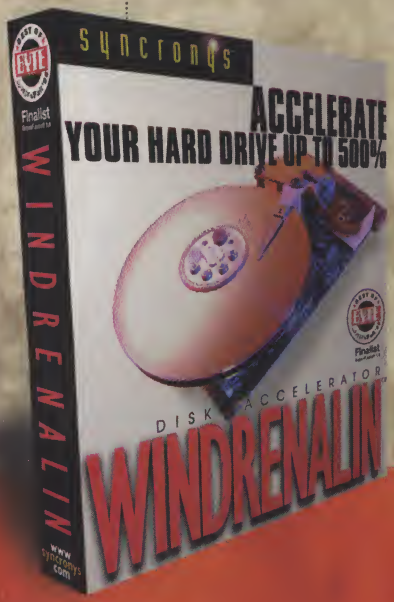
CREATIVE®
WWW.SOUNDBLASTER.COM

Circle 112 on reader service card.

UP TO 500% FASTER HD SPEED

AND UP TO 200% FASTER CD SPEED

We asked PCTest and NSTL to check it out. Here's what they had to say...





THE RESULTS

Good Launch times? PCTest concluded: "Overall improvements range from 33% to 184% ... With the multi-tasking running, an overall improvement of 450% to 3,600% was experienced."†

NSTL reported: "Windrenalin showed a marked improvement in application launch times. The improvement is dramatic when running four file comparisons in the background."††

*Multiple searches on Compton's Interactive Encyclopedia™ installed in minimum mode conducted under Windows 95 on a Pentium 133 with 16MB RAM, 8X CD player and 100MB CD-ROM cache. Actual results may vary based upon individual systems and applications.

† PCTest–Windrenalin HD Acceleration Final Report, 1/31/97, pg. 2 (General Conclusions and Observations). Actual results may vary based on your system, applications and nature of multi-tasking.

†† NSTL Final Windrenalin HD Report, 2.97, pg. 3. NSTL makes no recommendation or endorsement of any product. Actual results may vary based on your system, applications and nature of multi-tasking.

NSTL TESTED

CERTIFIED PCTest CORPORATION COMPATIBILITY TESTED

THE RESULTS

PCTest found multiple searches in Compton's Interactive Encyclopedia are up to 56% faster on an 8X CD-ROM player. And the competition gets left behind, too. CD-Speedster outperformed both SpeedyROM™ and d-Time95™.*

That's how to make your CD searches sizzle and smooth video and sound on slower CD players.

And it comes with the hot Diablo™ shareware game.

We're faster

syncronys softcorp™

and others agree.

www.syncronys.com

©1997 Syncronys Softcorp. All rights reserved. Windrenalin software is under license from Acceleration Software International Corporation and is covered by US Patent No. 5584007. Syncronys, the Syncronys logo, CD-Speedster and Windrenalin are trademarks of Syncronys Softcorp. Diablo is a trademark of Davidson & Associates, Inc. All other trademarks are the property of their respective holders

Circle 206 on reader service card.

Keep NT Current

NumLock On—For Good!

Every time I boot up, NT sets the NumLock key to off. Isn't there a way to set NumLock on permanently?

If you use the numeric keypad only to enter numbers, you can easily convince NT to change its annoying default setting. All the usual disclaimers about editing the Registry apply here: Make sure you have a current backup, and be extremely careful because mistakes in the Registry can make your system refuse to boot and even result in data loss.

Start either version of the Windows NT Registry Editor (Regedt32.exe or Regedit.exe). Navigate through the registry tree and select the following key:

HKEY_CURRENT_USER\Control Panel\Keyboard

In the right-hand pane, double-click on the InitialKeyboardIndicators value and change it from 0 to 2. Click on OK to save the change, then close the Registry Editor. From now on, every time you log on, NT will note your preference and set the NumLock key on, as you like it.

Stop That CD

It seems like every CD I own wants to start up when I insert it into my PC. How can I prevent this annoying behavior?

On an NT system, AutoRun CDs can be a nuisance, especially if they were designed to run under Windows 95 and aren't completely compatible with NT. There's no NT checkbox that will turn off this feature, but you can disable AutoRun for a given CD by holding down the Shift key as you insert the CD. If you're willing to edit the NT Registry, you can make the change permanent. Open the Registry Editor (Regedt32.exe) and modify the following key:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Cdrom\Autorun

Change the default value of 1 to 0 to disable AutoRun. Don't forget that the default menu choice on many CDs is AutoRun, which means that double-clicking on the CD's icon will run a program instead of opening an Explorer window. To avoid this surprise, get in the habit of right-clicking on CDs—the Open and Explore choices will always be available on the shortcut menu.

Service Pack Facts

I'm running the original version of Windows NT 4.0. I know there are at least three service packs. Should I install these updates?

You can always find the most recent Windows NT service packs and hotfixes—patches and updated components that fix specific, usually serious bugs in the latest service pack—by starting at the downloadable Microsoft Software Library, www.microsoft.com/kb/softlib. For NT 4.0, Service Pack 1 is essential and practically risk-free. Avoid the buggy Service Pack 2, though, and check the Readme files on Microsoft's FTP site to see if there's a bug fix or feature you need in the more stable Service Pack 3. (The answer is probably yes.) Remember, service packs are cumulative, so you can ignore older versions if you've downloaded and installed the most recent one.

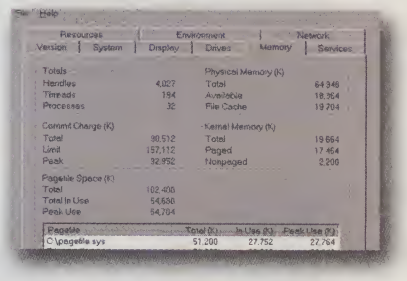
To install a service pack, you must log on locally with administrative privileges. If you downloaded the fix, double-click on the executable file to begin the update process. If you received a service pack on CD-ROM, browse the CD's root directory to find Readme files, HTML-format setup instructions, and the Service Pack setup program. Don't let your guard down after you've successfully installed a Service Pack, either. Check Microsoft's FTP site regularly for hotfixes. Be sure to reinstall all service packs and hotfixes after you add a new piece of hardware or update an NT service.

Instant Answer: Net Results

Many of Windows NT's most valuable information tools work well across a network. For example, the NT Diagnostics program lets you inspect IRQ assignments, monitor memory, and view or set system environment variables. Choose File, Select Computer, to gather information from other computers in the same domain or workgroup without leaving your desk.

Instant Answer: RAM View

How much memory are you using, really? Get a quick snapshot of RAM with the Windows NT Diagnostic program (you'll find it in the Administrative Tools group). The Commit Charge box has the most important number—it tells you how close you are to the limit of physical and virtual memory combined.





Envision an enterprise that's

completely compatible,

infinitely scalable, totally expandable,

easily manageable, and entirely mobile.

intel inside

pentium® PROCESSOR

*Actual results may vary depending on usage. ©1997 Acer America Corporation. Acer and the Acer logo are registered trademarks, and AcerAltos is a trademark of Acer America Corporation and Acer Inc. Intel, the Intel Inside Logo, and Pentium are registered trademarks of Intel Corporation.

Introducing Acer's

mobile client server

solution — the new way to truly realize enterprise productivity.

Today, many companies are extending the enterprise into virtual offices. Add to that an increasingly mobile workforce, and a compatible, integrated solution becomes vital to ensure anytime, anywhere access to information.

By design, Acer's full range of Mobile Client Server solutions, like the new AcerPower™ Network Ready PC series with the Intel® Pentium® processor, provide compatibility, connectivity, security, mobility, accessibility, and manageability. And help you gain a competitive edge.

As one of the world's largest personal computer and component manufacturers, Acer has the core technological capabilities critical to your enterprise. Plus, the channel relationships and resources to provide you single-call support.

Acer's Mobile Client Server. The new enterprise solution that's completely compatible. And painlessly productive.

Acer®

1-800-558-ACER & select option 2, 1
www.acer.com/aac/

Circle 156 on reader service card.



With an industry leading 7-hour single battery notebook, Acer is redefining mobile solutions.*

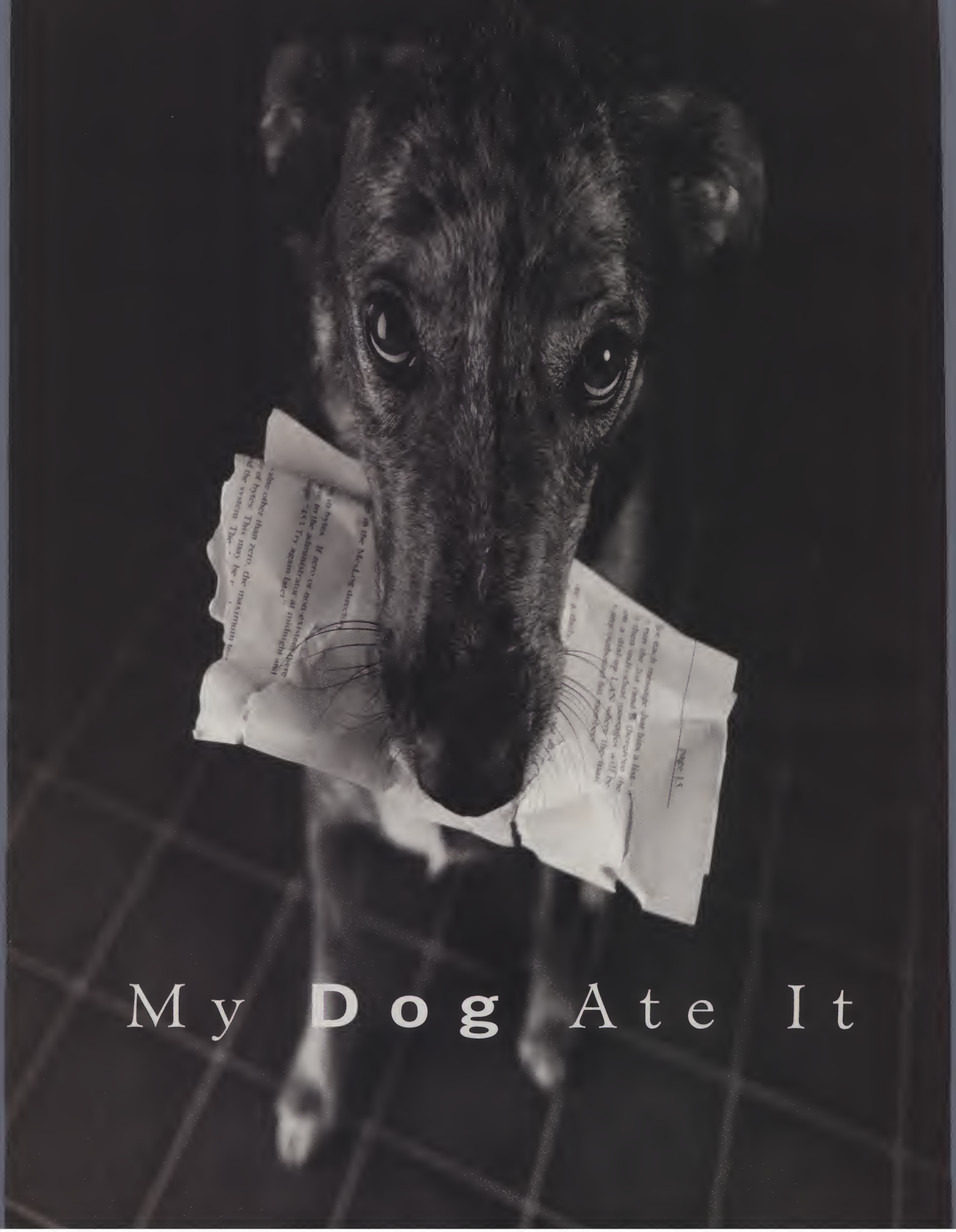


With a new Pentium-based Network Ready PC for under $1,000, including monitor, Acer has a range of products that make sense.



AcerAltos servers have manageability built-in.





My Dog Ate It

No Excuses

That's the whole idea behind our reliable new workgroup printers — the Fujitsu PrintPartner® 10V and PrintPartner 14AV.

Two exceptional printers designed to set new standards for price, performance and reliability.

Here's where the No Excuses™ part comes in. Fujitsu backs each printer with an industry leading one-year warranty, so in the unlikely event of a breakdown, your printer will be replaced within two business days.

No Excuses.

And as you might expect, coming from Fujitsu — the world's second largest computer company — these new workgroup printers have the speed and performance you want. And the price.

For the PrintPartner dealer nearest you, call 1-888-561-2036 today. There's no excuse to own anything else.



PrintPartner 14AV*



PrintPartner 10V

FUJITSU

Download your free No Excuses Screensaver at www.fcpa.com.

©1997, Fujitsu Computer Products of America, Inc. All rights reserved. No Excuses is a trademark of Fujitsu Computer Products of America, Inc. All other trademarks are the property of their respective companies. *Shown with optional second 500-sheet paper tray.

Circle 259 on reader service card.

Networking and Security

It used to be so easy to keep your data safe. As long as you had a good lock on your office door, no one could touch your files—literally. Today, thanks to ubiquitous networking and full-time Internet connections, it's practically impossible to lock up all your data. Still, you can keep out casual snoops and all but the most determined data thieves if you exercise some common sense. Take care when sharing network resources, use strong passwords, and make sure other users in your company understand the basics of network security. And never write your password on a Post-it note and stick it to your monitor!

Password, Please

I encounter all sorts of logon boxes when using Windows 95. Sometimes I can save the password and other times the box is grayed out. What gives?

Absolutely nothing in Windows 95 is more confusing than the way it handles passwords. Depending on how your system is configured, you may see three separate password challenges each time you start your system. Or you may see none at all. Here, in a nutshell, is exactly what's going on.

When you first start Windows 95 after installing any network component, the operating system presents a dialog box that lets you enter a username and password. That's the Windows Logon, and if you fill in the blanks at that first opportunity, Windows creates a password list file in which it stores all your passwords in encrypted form. The filename, which is stored in your Windows folder, consists of your username plus the .PWL extension. From that point on, Windows offers to save passwords you enter in subsequent dialog boxes—but only if you've first unlocked the password list file by logging on with the correct username and password.

Why do you sometimes see two or more logon prompts? Because in addition to the Windows Logon, you've also *installed* a network client that demands its own password. By default, Windows installs the clients for Microsoft and NetWare networks when you install a network adapter, and each client can have its own password. If your network doesn't include any NetWare servers, use the Network applet in the Control Panel to remove the unnecessary client. Then start the Control Panel's Network applet and select Client for Microsoft Networks in the drop-down Primary Network Logon list—from that point on, you will bypass the Windows Logon and unlock the password list when you connect to your network.

Why is the Save Password option sometimes unavailable? First check the Network applet in the Control Panel to make sure the Client for Microsoft Networks is installed. If that software is present but you pressed the Escape key the first time the Windows Logon appeared, Windows never created a password list so it has no place to save passwords. Or if you pressed the Escape key at the logon prompt when you started your current Windows session, Windows appeared to start normally but your password list remained locked. To log on and create or unlock your password list, click on the Start button and choose Shut Down, then click on Close All Programs and Log On As a Different User, and click on OK. This time, enter the correct username and password when starting up.

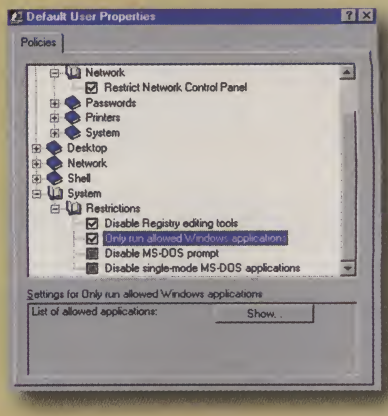
Central Management

On our small Windows network, I'm regularly forced to play network administrator and help-desk manager. Is there any way to control other computers without leaving my desk?

Try installing Remote Administration Services on the other PCs on your network. *On each Windows 95*

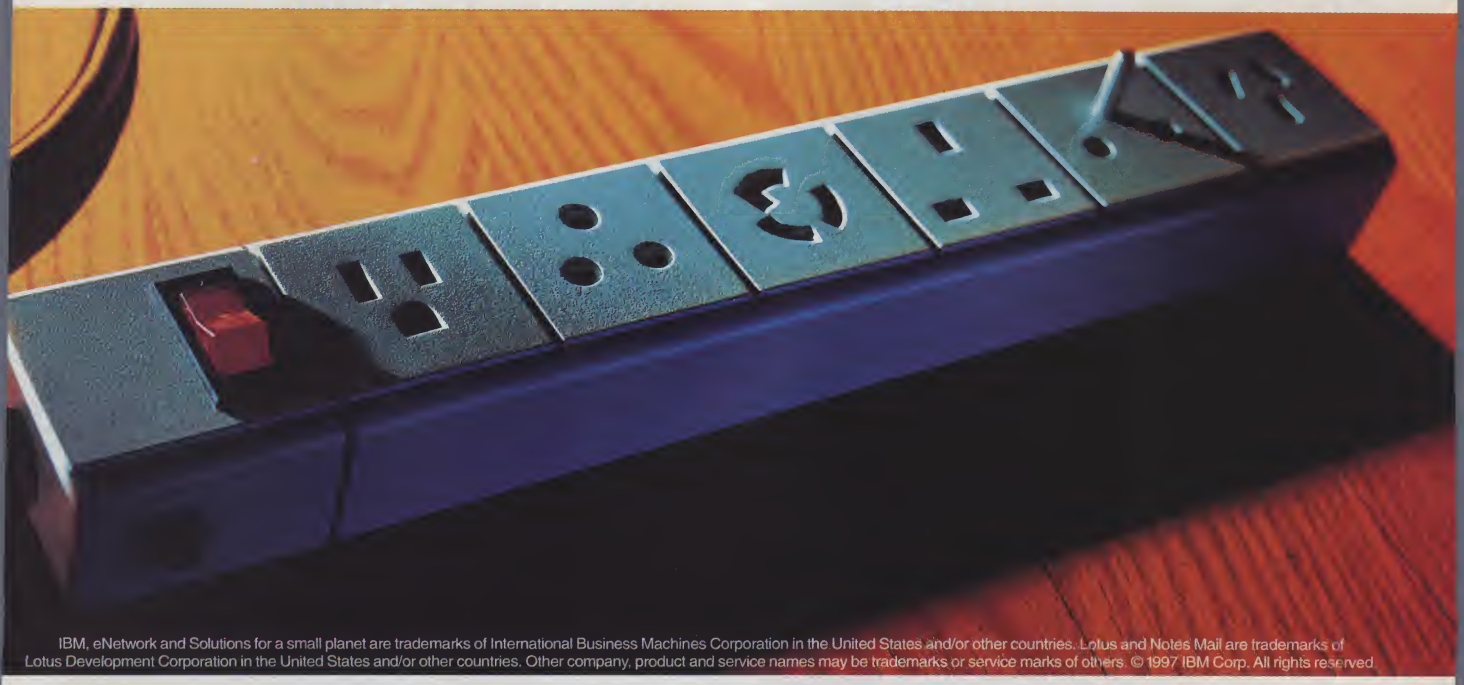
Instant Answer: Lock Down

Want to keep inexperienced Windows 95 users from getting into trouble—or into unauthorized files? Try the System Policy Editor—you'll find it in the Admin\Apptools\Poledit folder on the Windows 95 CD-ROM for the Policy Editor. It's not an easy tool to use or master, but the results can be worth it.





IBM eNetwork™ Communications Suite provides
access to users anywhere, over virtually any network.



IBM, eNetwork and Solutions for a small planet are trademarks of International Business Machines Corporation in the United States and/or other countries. Lotus and Notes Mail are trademarks of Lotus Development Corporation in the United States and/or other countries. Other company, product and service names may be trademarks or service marks of others. © 1997 IBM Corp. All rights reserved.

Universal access for a universe of users.

IBM eNetwork Communications Suite gives you the power to provide access to users anywhere, over virtually any network. Now you can leverage your existing IT assets by extending the reach of your network while enjoying the same bulletproof integrity you built into your enterprise network infrastructure. And with a series of best-in-class components, you can standardize your users while satisfying their individual needs. Try it for yourself. It's the enterprise-class solution to universal access. Call 1 800 901-2205, code 6C7BJ003, or visit www.software.ibm.com/access for the no-charge Communications Suite Evaluation Kit, and to take advantage of limited-time introductory prices.

eNetwork Communications Suite: IBM Personal Communications • Lotus® Notes Mail® • FTP Software • Netscape Navigator

IBM

Solutions for a small planet™

Are you certain your software came directly from an authorized source? If not:

You lose

- useful documentation
- future upgrades
- technical support
- discounted pricing

You risk

- computer viruses
- non-functioning software
- incompatible software/hardware
- stiff fines



Software rental, counterfeit software and downloading commercial software from the Internet or bulletin boards without the publishers' permission are all illegal.

Get the facts.

Visit the Software Publishers Association home page at: **http://www.spa.org** or call us at: **(800) 388-7478** for assistance, or to report a case of software piracy.

SPA

Don't Copy That Floppy™

© 1996 Software Publishers Association

Adobe Premiere, WordPerfect, Norton Utilities, and Harvard Graphics, are trademarks of SPA members. Used with permission.

machine, open the Control Panel Passwords applet, click on the Remote Administration tab, and check the box labeled Enable Remote Administration of This Server. In the same dialog box, create an administrative password or, if user-level security is enabled, add your account to the list of authorized administrators. From your computer, you can now use the Net Watcher utility to view network connections and see who has files open on the remote computer. You can also control access to shared folders and printers from across the network using this tool. (You may need to install Net Watcher using the Add/Remove Programs applet in the Control Panel. You'll find it on the Start menu; choose Programs, Accessories, System Tools.)

Do you want to be able to edit the Registry or monitor system performance from a distance? You can, if your network includes an NT or NetWare server and you install the Remote Registry service on the client machine. First, enable user-level access control and file and printer sharing on the client machine. Right-click on the Network Neighborhood icon and choose Properties, then click on Add. Select Service and click on Add. Next, click on the Have Disk button and navigate to the Admin\Nettools\Remotreg folder on the Windows 95 CD-ROM. Click on OK to install the Remote Registry service, then restart the computer.

You can now use the System Monitor utility to view performance indicators—including memory, disk, and CPU usage—on the remote machine. You can also use the Windows Registry Editor (Regedit.exe on Windows 95 PCs, or Regedt32.exe on NT machines) to make changes to the remote machine's registry. Remember, though—before most registry changes will take effect, you'll need to restart the system.

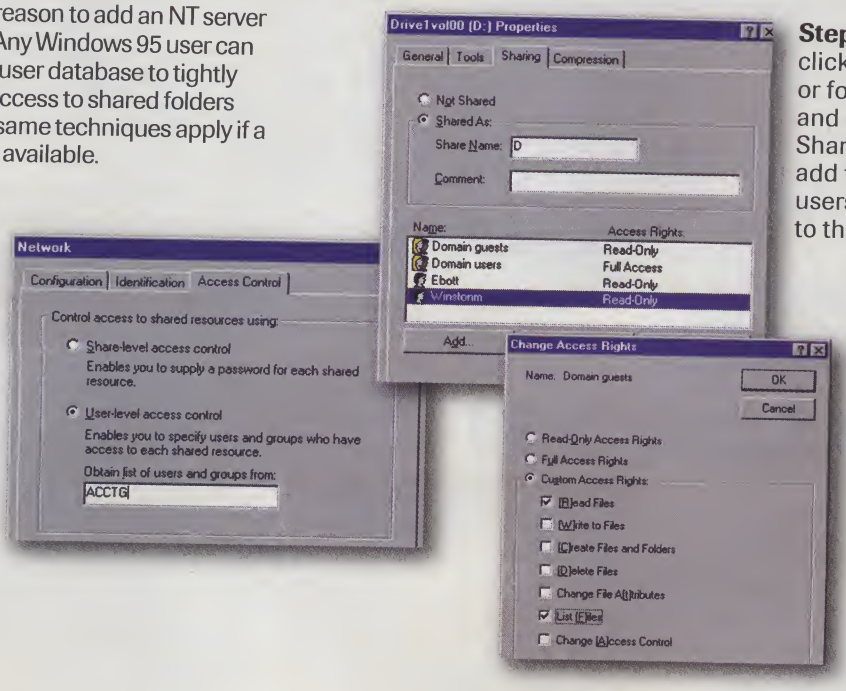
Checklist: Password Pro

The ideal password is easy for you to remember and impossible for others to guess. Follow these rules of thumb.

- Change your password frequently—at least every six months.
- Don't reuse old passwords. And never use your Windows logon password with insecure Web sites.
- When choosing a password, use a mixture of at least eight letters and numbers, and avoid words that can be found in a dictionary.
- Use a proxy server and a firewall between your network and the Internet—these barriers add an extra layer of protection between outsiders and any sensitive data stored on individual machines.
- Resist the urge to click on links when browsing suspicious Web sites—it could open a security hole for would-be password pirates.

STEP BY STEP ADD EXTRA **PROTECTION**

Here's one great reason to add an NT server to your network: Any Windows 95 user can use its rock-solid user database to tightly control who has access to shared folders and printers. The same techniques apply if a NetWare server is available.



Step 1: Check the User-Level *option* and enter the name of the server that contains your network's user database.

Step 2: Right-click on a drive or folder icon and choose Sharing, then add the names of users and groups to this list.

Step 3: The Custom button lets you fine-tune sharing. A trusted assistant can create or delete files, while others can look but not touch.

Protocol Pointers

I'm setting up a Windows network. The net cards are installed, but I have no idea which protocols to use or what settings each one requires.

You have every right to be confused. Different versions of Windows install different assortments of the four Windows protocols by default, and you have to pay close attention to make sure that all the systems on your network are literally speaking the same language. Follow these general guidelines in setting up your own network:

Data Link Control (DLC) is used mostly for connecting to IBM mainframes. If you need it, you'll know it.

NetBEUI is an older protocol that has the advantage of being fast and lightweight. Because it's not routable, you should use it only on small networks with no outside connections.

NWLink (IPX/SPX) is the protocol of choice on most NetWare networks. If you connect to Novell file or print servers, you'll almost certainly need to install this protocol.

TCP/IP is the industry-standard protocol of the Internet. It routes well, and it supports a wide assortment of management tools. The only drawback is its complexity—you need to understand the basics of IP addressing and subnetting before setting up a TCP/IP network. On Internet-connected networks of any size, this protocol is your best bet.

With some network configurations you have no choice but to use multiple protocols. If you can stick to a single protocol, though, you're better off because you'll avoid the performance lags that inevitably result when network packets have to search for the right protocol.

Sharing Safely

Our office would be more productive if we shared files and folders, but I'm worried some people might have access to data they shouldn't. What's the best way to manage shared data?

If there's an NT or NetWare server anywhere on your network, use it to enforce access to shared data. This user-level security is far more secure than the share-level security used by default on peer-to-peer Win95 networks. User-level shares let you specify which users or groups can access a given shared resource, and they can't get in until they log in using the account on the server. With share-level security, on the other hand, you set two passwords that allow full access or read-only admittance to shared files. Anyone who knows or guesses the password can get in.

Educate network users on security issues, and train them to compartmentalize sensitive data using folders. Instead of sharing the entire C: drive, for example, they might share only C:\Data\Budget\98\Drafts—and their files would be much safer from intrusion—deliberate or accidental.

Password Patches

I've heard that hackers can break into password files and steal passwords from across the Net. Is there a way to keep my network passwords from being stolen?

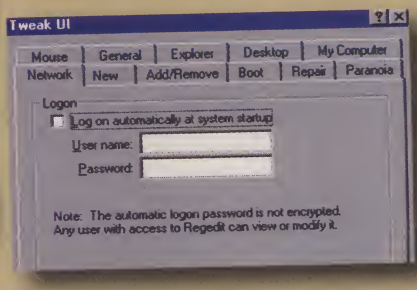
If you're not one bit concerned about security every time you connect to the Internet, you're living in Fantasyland. When you're logged on to a Windows network that's running NT 4.0 or Windows 95, the system stores your machine name, username, and an encrypted version of your password. Simply clicking on a harmless-looking link on a Web page can send all that information to a complete stranger.

But the password's encrypted, so you're safe, right? Wrong. Very wrong. It takes time to crack an encrypted password, but it can be done. Most plain-English passwords are crackable, and if a bad guy knows your username and your password, there's a good chance he can log on to your network. You can't prevent hackers from trying to break in, but you can make it much more difficult for them to succeed.

We've put together a list of password do's and don'ts at the beginning of this chapter (see the sidebar "Checklist: Password Pro" on page 229). On machines running the original release of Windows 95, password encryption is dangerously weak. Make sure you've installed the most recent upgrades and system patches—you'll find details and links at www.microsoft.com/kb/articles/q165/4/02.htm.

Instant Answer: Win Access

Want to log on to Windows 95 automatically? Use the Tweak UI utility in the Windows Power Toys collection (www.microsoft.com/windows/software/powertoy.htm). Of course, anyone who can reach the power button has full access to resources on your network, but hey, it's your network.



Instant Answer: Play It Safe

Want a graphic example of why password protection is important? Point your Web browser to www.ee.washington.edu/computing/iebug/ for a demonstration of some common browser security holes. Read the warnings carefully before clicking on any links!



FREE! PowerChute® *plus* software with all 120V Smart-UPS®.

Smart-UPS now ships with Free PowerChute® plus! LAN, WAN and web servers all benefit from new Smart-UPS® Network Bundles... Now the most reliable power protection solution comes in one box!

❑ **YES!** Please send me information about new Smart-UPS Network Bundles.

❑ **NO** I am not interested in Smart-UPS Network Bundles at this time.
But I would like a FREE ❑ Handbook* ❑ Demo Disk*

Name: _____

Title: _____ Company: _____

Address: _____

_____

City: _____ State: ____ Zip: _____ Ctry _____

Phone: _____ Fax: _____

Brands of Servers used: _____ PCs: _____

Brands of UPS used: _____ #: _____

of Servers on site: _____

of PCs on site: _____

* Allow 6 - 8 weeks for delivery.
Please fill in all information completely for prompt service.

APC

(888) 289-APCC x8219
Fax: (401) 788-2797
http://www.apcc.com

E7 WB

©1997 APC. All Trademarks are the property of their owners. SU01EBRC • E-mail: apctech@apcc.com • 132 Fairgrounds Road, West Kingston, RI 02892 USA

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO. 36 WEST KINGSTON RI

POSTAGE WILL BE PAID BY ADDRESSEE

APC®
AMERICAN POWER CONVERSION

DEPT. E7-WB
132 FAIRGROUNDS ROAD
PO BOX 278
WEST KINGSTON RI 02892-9920

Our new Smart-UPS® ensures the web hits you *want*... and prevents those you *don't*

Web-enabled PowerChute® *plus* now ships with every Smart-UPS®

Whether you're using the web to sell or support, once you invest in a web server and operating system, you've made a commitment to yourself, your company and your customers. However, without power protection, you risk losing your expensive software, hardware, and data, and the opportunity to interface with new prospects and existing customers. That's why the worlds most reliable power protection is now available to meet your web-based needs.

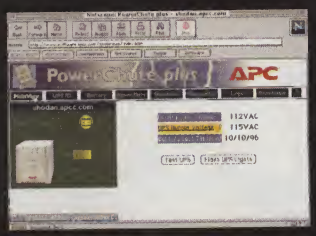
Smart-UPS® ensures your web server is always there, like you promised. Don't become a statistic! Power problems damage hardware, and are the leading cause of data-loss.

APC Smart-UPS ensures protection from surges, spikes and lost power. Backed by a $25,000 lifetime equipment protection guarantee, Smart-UPS brings the confidence of APC to the excitement and opportunity of the Web.

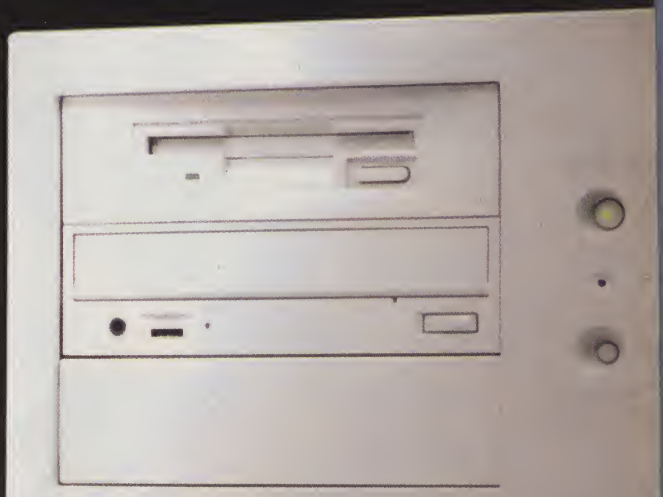
All 120V Smart-UPS now include FREE Web enabled PowerChute *plus* software for safe web server and OS shutdown. PowerChute *plus* protects system and data integrity by automatically shutting down server applications and operating systems.

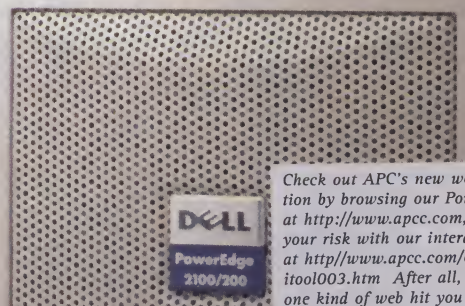
PowerChute *plus*' FlexEvents™ feature can page you when an out-of-bounds environmental condition occurs. APC's NEW WebAgent™ allows administrators to manage their Smart-UPS via their browser. NEW WebAlert™ notifies users of Web server shutdown.

Instead of increasing your risk by waiting, join over 8,000,000 satisfied computer users worldwide who prefer APC to protect hardware and data.



Smart-UPS now ships with PowerChute plus power management software with WebAgent, to make Smart-UPS browser-manageable. (Ships free with 120V Smart-UPS only.)





DELL PowerEdge 2100/200

Check out APC's new web solution by browsing our PowerPage™ at http://www.apcc.com, or assess your risk with our interactive quiz at http//www.apcc.com/english/itool003.htm After all, there's one kind of web hit you and your site cant afford.



APC's award-winning Smart-UPS units are available in convenient rack-mount models. The Smart-UPS XL series is recommended for long runtime applications. For maximum protection, ask about our new NetShelter™ premium rack enclosures for all server and internetworking equipment sales.

APC's MasterSwitch™ provides Web /SNMP-manageable, independent control of power to connected loads.



"...inherent flexibility and excellent software. Don't be caught without one"

PC MAGAZINE EDITORS' CHOICE™ November 19, 1996 APC Smart-UPS 1000

To receive FREE information about PowerChute *plus* with WebAgent, just complete this coupon and mail or fax to APC



☐ **YES!** I'd like more information about new PowerChute *plus* software with WebAgent

☐ **NO** I'm not interested at this time but please send my FREE Power Protection Handbook.

Name: _____

Title: _____

Company: _____

Address: _____

City/Town: _____

State: _____ Zip: _____ Country _____

Phone: _____ Fax: _____

Brand of UPS used? _____ #_____

Brand of PCs used? _____ #_____

Brand of servers used? _____ #_____

APC®

(888) 289-APCC x8219

Fax: (401) 788-2797 • http://www.apcc.com

Dept.E7-WB

©1997 APC. All Trademarks are the property of their owners. SU02EF • (800)347-FAXX PowerFax • CompuServe: GO APCSUPPORT • E-mail: apctech@apcc.com • 132 Fairgrounds Road, West Kingston, RI 02892 USA

APC has won more awards for reliability than all other UPS vendors combined.

Circle 185 on reader service card.



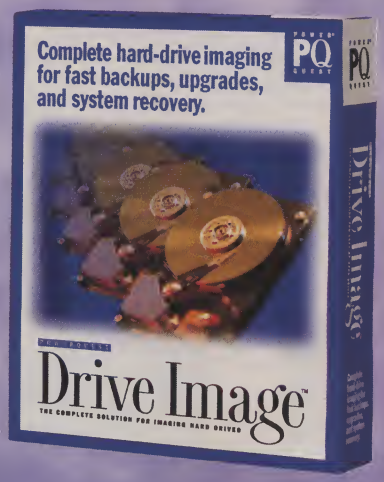
NOW YOU CAN

image YOUR hard drive IN A flash!

INTRODUCING **Drive Image.**™ THE FASTEST, EASIEST WAY TO IMAGE YOUR HARD DRIVE FOR **backups, upgrades** AND **complete system recovery.**

Buy Now! $15 Cash Back from PowerQuest

When you need an instant copy of your hard drive, Drive Image is the picture-perfect solution. You can easily create and store a compressed image file of your entire hard drive, or just selected partitions, on a JAZ, Zip, network, or second hard drive. That makes backups a breeze, and even a dreaded hard-drive crash is no problem. To restore your system, simply download your drive's image file from its storage source and you're ready to go. Drive Image also makes upgrading to a larger hard drive a snap. Simply copy everything from your old drive to your new drive. You can even specify the size of the partitions on the new drive during copying so everything fits the first time. And Drive Image is fast. Its patent-pending SmartSector™ technology works up to two to three times faster than straight file-by-file or sector-by-sector methods of copying. That saves you time and a lot of aggravation. For more information about Drive Image, visit our Web site at **www.powerquest.com.** Multiple workstation or site licensing options are also available. Call **1-800-379-2566** for details.



Buy Drive Image and get $15 back from PowerQuest. Ask your local reseller for details.

Babbage's Etc. • Best Buy • CDW • CompUSA • Computer City • Egghead • Electronics Boutique • Fry's Future Shop • J&R • Micro Center • Micro Warehouse • PC Connection • Tiger Direct

© 1997 PowerQuest Corporation. All rights reserved. PowerQuest is a registered trademark and Drive Image is a trademark of PowerQuest Corporation. Patents pending.

FROM THE MAKERS OF PARTITIONMAGIC®

POWER PQ QUEST

Circle 308 on reader service card.

Safe and Secure NT

Automatic Logons

I run Windows NT at home, without a network. Is there any way to bypass the Ctrl-Alt-Del Logon dialog box?

If you're willing to virtually eliminate NT's security advantages, there's a way to skip the Ctrl-Alt-Del Logon prompt and log on automatically when you power up. Because this technique requires that you tweak a few values in the NT Registry, you'll first have to log on with administrative privileges and make sure there's a user account with a nonblank password.

Run the Registry Editor (click on the Start button, choose Run, type Regedt32, and press Enter). Select the key HKEY_LOCAL_MACHINE\Software\Microsoft\Windows NT\CurrentVersion\Winlogon. Look in the right-hand pane for a value named AutoAdminLogon of type REG_SZ (if you don't see one, choose Edit, Add Value, and create it). Set this entry to a value of 1. With the same key selected, add a value entry named DefaultPassword of type REG_SZ and enter the password of the user who is listed under the DefaultUserName value entry. After you shut down the computer and restart, you'll bypass the Logon dialog box and boot directly into NT.

Both the Workstation and Server editions of the NT 4.0 Resource Kit include an applet that automatically edits these Registry entries for you. Install the Resource Kit CD-ROM, then look in the Configuration group for the Windows NT Auto Logon Setter.

Security Blanket

How can I make our company's NT network more secure?

You should be especially concerned about outsiders being able to log on with administrative privileges. The biggest security gap in most networks is the built-in Administrator account. If an outsider can log on using that account, every resource on the network is at risk. Don't let outside users near that account. Open the User Manager (it's in the Administrative Tools program group), choose User, Rename, and give the account a new, unguessable name using a random combination of mixed-case letters and numbers.

Never, ever browse the Web or use Internet resources when you're logged on to a Windows NT machine using the renamed Administrator account. If you do, you'll reveal the new name and eliminate your security edge. Instead, create a new account just for you, assign minimal permissions to it, and use that account anytime you connect to the Internet.

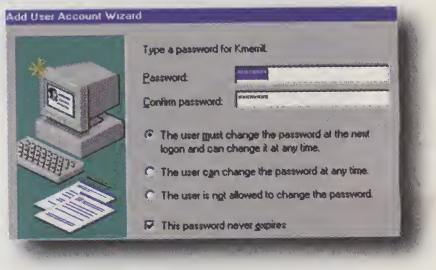
Finally, install NT Service Pack 2 or later and enable the strong passwords option. You'll find full instructions in article Q161990 in the Microsoft Knowledge Base (www.microsoft.com/kb/articles/q161/9/90.htm).

Instant Answer: Domain Events

Windows 95's Client for Microsoft Networks includes a setting that forces users to log on to a domain each time they start up. Open the Control Panel's Network applet, double-click on the entry for the Microsoft client software, select the Logon Validation checkbox, then enter the name of the domain. This step is an excellent way to ensure that users can access the resources they need, when they need them.

Instant Answer: New Users

The collection of Administrative Wizards on the Administrative Tools menu of an NT Server is the best way to add new users, because it steps you through the process of password assignments, account restrictions, home directories, and other details that you might easily miss with User Manager for Domains.



Remove 95-to-NT Roadblocks

How can I connect Windows 95 users to NT workstations and servers?

Before Windows 95 users can access resources on a shared NT workstation or on servers in an NT domain, they must first have a user account on that machine or network. You also need to make sure that each user has permission to access the shared resource. The username and password set up in the NT account database must match those that the Windows 95 user entered when logging on. If there's no matching account, the Windows 95 user will see a confusing dialog box demanding a network password for a shared resource with a cryptic name like IPC$.

To manage user accounts on NT workstations, open the User Manager program, found in the Administrative Tools group on the Programs menu. If your network uses an NT Domain, use the more powerful User Manager for Domains.



*Internet access required. World Book is a trademark of World Book, Inc. IBM is a trademark of International Business Machines Corporation in the U.S. and/or other countries. © 1997 IBM Corp. All rights reserved.

THE 1998 WORLD BOOK™ MULTIMEDIA ENCYCLOPEDIA

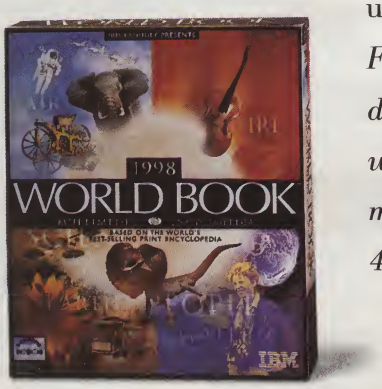
For those rare instances your children don't have an easy answer (a challenging homework assignment, perhaps), the easiest way to get them motivated is to give them something that makes learning enjoyable. A theory we most definitely kept in mind when designing our new 1998 Deluxe Edition.



Locate the Coyote State on a map and pinpoint Rapid City. They can even use our specially selected Internet links to visit the Web and learn about Thomas Jefferson and his contributions to the Declaration of Independence. It's a far more thorough (and far more fun) way for your kids to learn.

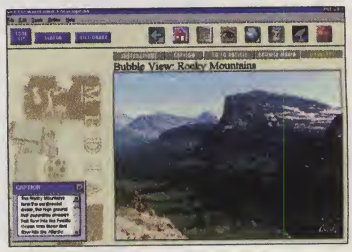
At least now they have a reason to think they know everything.

It features enhanced multimedia (more video, audio and virtual reality), a fresher user interface, updated online capabilities* and a powerful new homework "tool kit." All fully integrated with every article from World Book, the world's best-selling print encyclopedia. In practical terms, that means that after reading about South Dakota, your young know-it-all can take a virtual reality tour of Mount Rushmore.

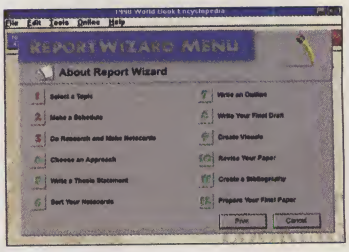


Our articles are also written to sync up with your children's school curricula. Something we then revise and check up on every year. They're even written to be grade appropriate. Making World Book a tool they will never outgrow. One that you're sure to get plenty of use out of, as well.

For more information, drop by our Web site at www.pc.ibm.com/multimedia. Or call 1 800 426-7235, ext. 5217.



• *Let's say you're interested in the Rocky Mountains. A* Bubble View *gives you a 360-degree virtual reality tour. As you stand at the bottom and look up, you'll get an idea of just how big these awe-inspiring mountains really are.*



• *Getting organized can be the toughest part of any assignment. A homework tool kit offers* Wizards *to help you outline, take notes, make charts and timelines, and pull everything together. It's a real time-saver that teaches valuable research skills.*

IBM®

Mastering Hardware

The world of computing has changed since Windows 95 first appeared, and that's particularly obvious when you look at the hardware shelf. Gigabyte-size hard disks are now standard in notebooks, and prices on massive multigigabyte hard drives have made them irresistible upgrades on desktop systems. CD-ROMs have displaced floppy drives as the preferred way to distribute software for Windows 95 and NT. Making it all work with Windows, especially on older desktop systems and on notebooks with limited upgrade capabilities, can be a challenge. But we've got answers here.

Notebook Role Model

I adjusted a setting in the Windows Control Panel that's supposed to make my notebook run faster, but it actually performs worse now. What did I do wrong?

This is a genuine whopper of a bug that surfaced in the original release of Windows 95 and was not fixed until OSR2. Fortunately, you can make the setting work as intended if you're willing to edit the registry. Open the System dialog box from the Control Panel and click on the Performance tab. Under Advanced Settings, click on the File System button. In the drop-down list labeled Typical Role of This Machine, choose Mobile or Docking System. Click on OK, but don't restart yet.

Thanks to a well-documented bug, two settings in the Windows registry may be reversed. Run Regedit and search for Hkey_Local_Machine\Software\Microsoft\Windows\CurrentVersion\FS Templates. Highlight the Mobile key in the left-hand pane and check the hexadecimal values in the right-hand pane. NameCache should be set to 51 01 00 00, and PathCache to 10 00 00 00. If these values are reversed, make the necessary changes, and then restart. You should see an improvement in performance, although the change may be too subtle to notice in some cases.

Plug and Play Fixes

When I installed a new device, the setup process went smoothly but now the device isn't functioning. What should I do next?

Plug and Play is great when it works, but Windows 95 doesn't always get the configuration settings correct. And you can go crazy trying to remove all traces of the device and reinstall from scratch. Here are some strategies we recommend:

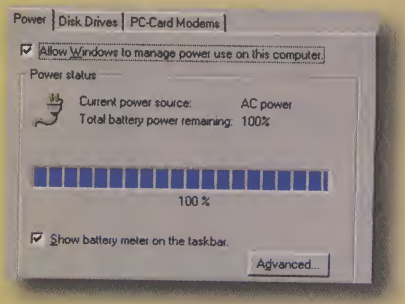
First, open Device Manager and see if there are any obvious problems. Inspect the properties for the device you've just installed, and pay particular attention to the Resources tab. If that dialog box lists a resource conflict, use the Conflict troubleshooter to find a cure. If you don't see a conflict listed, you may still be able to convince Windows to adjust settings—remove the check mark from the box that says Use Automatic Settings, then restart.

Try removing the device from Device Manager, then turn off the system and physically remove the device as well. Restart the system and repeat the installation. When removing devices, look for related devices that may be confusing the Plug and Play code. For example, some PCI network adapters install a generic PCI Ethernet Controller as well.

If all else fails and you're considering the drastic step of reinstalling Windows from scratch, there's one final, radical option. You can force Windows to redetect all hardware in your system, and the redetection process could resolve the problem. Open Device Manager, expand the System Devices tree, remove every listed device, then restart. It may take several reboots for Windows to redetect every piece of hardware, but the process sometimes works. Remember, though, this strategy is strictly for situations in which all other efforts have failed!

Instant Answer: Portable Power

If you're buying a new notebook PC, insist that it come with Windows 95 OSR2. One of the most significant changes in this update is support for Advanced Power Management 1.2. That gives you greater control over power usage than in the original version of Windows 95. Most important, it lets you shut down power to PC Card modems when they're not in use.





(Here's your lightning rod.)

When the news strikes, you need to know. Get it broadcast straight to your computer screen with the PointCast® Network, the free Internet news and information service.

PointCast automatically transforms your idle computer screen into a dynamic, up-to-the-minute newswire. You get breaking company announcements, industry reports, world news, stock quotes, and weather reports from more than 300 leading business and news sources.

And you can personalize PointCast to get only the news you want. CNET awarded it "Best Internet Application" and *The Wall Street Journal* gives PointCast " 'must-have' status for in-the-know computer owners."

Join the millions of people who already use PointCast to monitor the changing business climate and stay one step ahead of the storm.

Get it Free

www.pointcast.com

PointCast
The desktop newscast

© 1997 PointCast Incorporated. PointCast is a registered trademark and the PointCast logo is a trademark of PointCast Incorporated. All other names and trademarks are properties of their respective owners.

PC MAGAZINE EDITORS' CHOICE™ 1995 *v 3.0.3*

PC MAGAZINE EDITORS' CHOICE™ 1996 *v 3.0.3*

PC MAGAZINE EDITORS' CHOICE™ 1997 *v 4.0*

Maybe we should change the name from Quick View Plus to Editors' Choice.

With Quick View Plus® you can instantly view, copy, print and manage files from over 250 different applications as they were originally created, with fonts and graphics in place. It doesn't matter where they came from—Internet, E-mail, friends and coworkers. You don't even need the applications that created them!

Essential? You bet. After all, you're spending a lot of money for your computer system. Why spend a fortune in additional software?



Quick View Plus has a suggested street price of just **$59**! To get your copy, please call or visit the retailer nearest you, or call **800-932-3095** for more information.

Inso®

www.inso.com

EGGHEAD COMPUTER The Technology Eggsperts
800-EGGHEAD

COMPUSA THE COMPUTER SUPERSTORE®
800-COMPUSA

SciTech SELECT DISTRIBUTION
800-622-3345

©1997 Inso Corporation. All rights reserved. Inso, the Inso logo and Quick View Plus are either registered trademarks or trademarks of Inso Corporation in the United States and /or other countries. All other company and product names are registered trademarks or trademarks of their respective owners.

Circle 390 on reader service card.

Keeping Current

I'm trying to install a new hard drive in an older computer, and it doesn't recognize all the capacity of the drive. What's wrong?

Your system BIOS and IDE controller can't correctly translate the mix of cylinders, heads, and sectors on the new hard disk. If your system is of 1994 vintage, it may not be able to count past 504MB, and some pre-1997 models have trouble with today's 4GB-plus drives. Some of the most modern systems are still hamstrung by limitations in the 16-bit FAT file system, which can't create partitions any bigger than 2GB.

You may be able to solve your problem with software, such as Ontrack Disk Manager (www.ontrack.com) or Micro House EZ-Drive (www.microhouse.com). If you require a BIOS upgrade and you're not completely comfortable with system-level utilities like FDISK, don't even think about upgrading your BIOS. Instead take the system to the dealer that sold it to you or to a qualified repair shop and have them do the update. If you're confident you can do it yourself, you'll find Flash BIOS upgrades for Intel motherboards at support.intel.com/design/motherbd/genbios.htm. Phoenix Technologies doesn't sell upgrades directly, but it does have a well-written FAQ at www.phoenix.com/techsupp/biosfaq.

The best third-party source of BIOS upgrades we've seen is Micro Firmware. Its Web site, www.firmware.com, includes several crystal-clear articles that explain the intricacies of drive formatting and partitioning, and provides links to practically every major hardware vendor around. You'll certainly find the answers you're looking for in one of these information-packed locations.

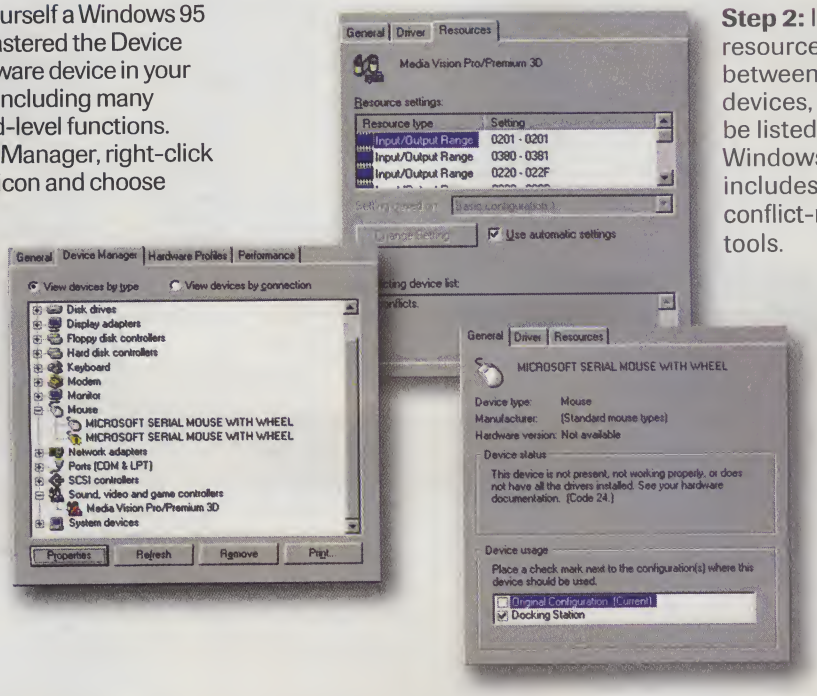
Checklist: Road Worthy

Most of the hardware hassles that occur on the road are easy to fix if you have these essentials at hand.

- Copy the Windows folder from the CD-ROM to your notebook's hard disk in case you need a utility or a driver on the road.
- Install drivers for PC Cards and test them before you leave.
- Write down the configuration details for your Internet service provider—phone numbers, DNS server addresses, and so on.
- Install a printer driver. Some programs don't work properly without it.
- Install a good file-compression program like WinZip; sooner or later you'll need it on the road.
- Open the Control Panel and use the Add/Remove Programs icon to create a Startup disk. Test it and pack it.

STEP BY STEP UNDERSTANDING DEVICE MANAGER

You can't consider yourself a Windows 95 expert until you've mastered the Device Manager. Every hardware device in your system is listed here, including many obscure motherboard-level functions. To pop up the Device Manager, right-click on the My Computer icon and choose Properties.



Step 1: A red X or a yellow exclamation point beside a device means you have a problem.

Step 2: If there's a resource conflict between two devices, it should be listed here. Windows 95 includes excellent conflict-resolution tools.

Step 3: These checkboxes let you tell Windows to disable a device in a specific hardware profile—an especially handy feature for notebook owners.

Power Play

My notebook includes BIOS settings for power management, but there's also a Power icon in the Windows 95 Control Panel. Can I use the two power management systems together?

Assuming that your notebook was designed for Windows 95, you should try to let the operating system do as much of the power management as possible. Don't disable power management in the BIOS, though—power management must be turned on for Windows to install its Advanced Power Management support. Your safest course of action is to set the BIOS power controls to the Maximum Performance setting. Then use the Windows 95 Power applet to restrict battery use.

For maximum battery life, follow these suggestions for making the most of unplugged computing:

Add as much memory as possible to your notebook. You might be pleasantly surprised to see how low prices have fallen for RAM upgrades to most popular notebooks, and extra memory will help you reduce battery-draining trips to the swap file.

If you're using the original release of Windows 95, remove PC Cards when they're not in use. Modems and network cards continue to consume power, and removing the cards can add precious minutes when you need them.

Dim the display as much as possible. Bright active-matrix screens look fabulous, but they're gluttons for power. While you're at it, set the screen-blanking timeout to a few minutes so that Windows can stop using the display if you're distracted by the in-flight movie.

Briefcase Briefing

There's a My Briefcase icon on my notebook, but I have no idea what it's for. Does it really work? Can I delete it?

A Briefcase is an excellent way to share files between a networked notebook and a desktop system or files on a server. It's not a utility—it's actually just another folder with several hidden database files that help Windows 95 and NT 4.0 keep track of changes you make. Dragging a file or folder icon into a Briefcase folder creates a sync copy, which is identical to the original file or folder. When you edit either the original or the sync copy and then connect the two computers and use the Briefcase Update option, Windows compares the two files and replaces the older version with the newer one.

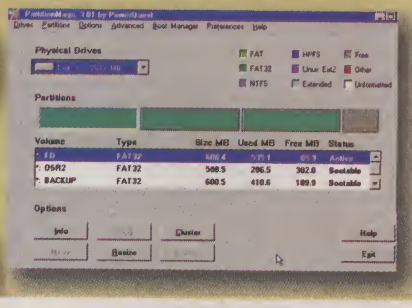
You can and should delete the My Briefcase icon from your desktop, then use the Windows Explorer to navigate to the folder where you *really* want to store data files. Right-click on an empty space, choose New, Briefcase, then give the new icon a name. Finally, create a shortcut to this folder on the Windows desktop, and use that shortcut to manage the contents of the Briefcase.

Depending on your needs, there are two good strategies for using a Briefcase. If you have a handful of frequently used files and you want to keep them in sync on both machines, drag each file into the Briefcase to create a sync copy. Even though all the original files are stored in different folders on the desktop PC, you can synchronize the entire Briefcase with a single Update command. On the other hand, if you store many working files in folders, use the Briefcase to track files you create and delete. When you drop an entire folder into the Briefcase, it creates a subfolder sync copy, which automatically tracks new files you create within that folder. Each time you update the Briefcase, Windows will offer to create copies of the newly created files (and remove any files you've deleted) in the original folder.

Oh, and don't even think about using a floppy disk for a Briefcase. Microsoft's documentation and help files claim that you can create a Briefcase on a disk, but what they don't mention is that all your files must fit on a single disk. Install a network adapter on your notebook or use the Direct Cable Connection option instead.

Instant Answer: Disk Pro

How do you convert a FAT32 partition to FAT16 or NTFS, and vice versa? How do you shrink an existing hard disk partition and add a new one without destroying all your data? What's the best way to manage a dual-boot system? That's the job of PowerQuest's PartitionMagic, an absolutely indispensable utility that belongs on every software shelf, right alongside Symantec's Norton Utilities. It's an unbeatable bargain at $70—get more information from www.pqmagic.com.



Instant Answer: CD Secrets

Want to change the way your CD-ROM drive works? Windows 95 lets you permanently change its drive letter and disable AutoRun. Open Device Manager, find the drive's entry in the CD-ROM section, and click on Properties. On the Settings tab, there's a checkbox for Auto Insert Notification—that's the technical name for Autorun. To choose a specific drive letter, enter the same letter in the Start and End boxes under Reserved Drive Letters.

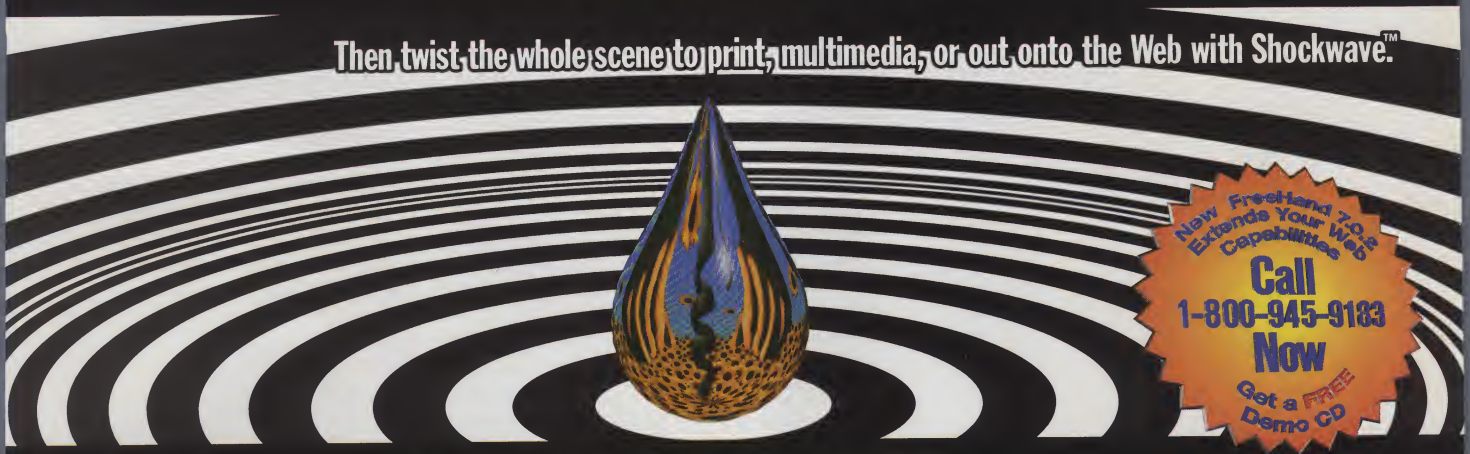


FreeHand™ 7. More Precision.



More Flexibility.

Then twist the whole scene to print, multimedia, or out onto the Web with Shockwave.™



More ways to flaunt your brilliance.



To order or for more info:
1-800-945-9183 • http://special.macromedia.com/fh

©1997 Macromedia, Inc. All rights reserved. Macromedia, the Macromedia logo, FreeHand, FreeHand Graphics Studio, and Shockwave are trademarks or registered trademarks of Macromedia, Inc.

macromedia®

Circle 262 on reader service card.

machines themselves. "They've been working on this for years and years," Mr. Jones said. Printer makers don't deny it; last year at an H-P research lab, a group of industry consultants ribbed an H-P official about its cartridge pricing. The official laughed and replied, "We just charge what the market will bear."

The Wall Street Journal, August 16, 1996

As seen in The Wall Street Journal, it's time to switch printers.

While some folks may think that the high cost of consumables is funny, we don't.

After all, studies show that the cost of consumables over time can reach as high as 5 to 6 times the cost of the printer. Multiply that number for every printer that your company owns, and you'll quickly see why the cost of consumables is nothing to laugh at.

If anything, it's one of the most important criteria to consider when choosing a printer and a key reason why thousands of enlightened clients are switching to Kyocera. Our unique cartridge-free technology can reduce your printing costs to less than a third of H-P's — that's about half a penny a page. And over its lifetime, that small change adds up. Multiply your savings by all the pages you print, and you'll save thousands, even tens of thousands of dollars.

Kyocera's new line of laser printers offers you all the quality, performance and dependability of H-P printers for a fraction of the cost.

So take a hot financial tip and take a look at Kyocera. Call us today, and it could be you who ends up laughing.

All the way to the bank.



For More Information, Call 800-232-6797
or visit us at
www.kyocera.com/printers

ECOSYS

KYOCERA

©1997 Kyocera Electronics, Inc. Kyocera is a registered trademark of Kyocera Corporation. All other product or service names mentioned herein may be trademarks or registered trademarks of their respective owners.

Circle 127 on reader service card.

NT Hardware Help

Connecting 95 and NT

I run Windows 95 on a notebook and NT 4.0 on my desktop. What's the best way to connect the two machines so I can transfer files between them?

By far the fastest and easiest way to connect the two machines is with a simple network. All the software you need is included in the two operating systems. As for hardware, two low-cost Ethernet adapters will let you set up both machines on a peer-to-peer network. To connect two 10Base-T cards directly without a hub, you'll also need a crossover cable, available from any well-stocked networking vendor. You'll need to install the appropriate drivers for each adapter and make sure the network protocols on each machine match—NetBEUI is the simplest choice. Enable file sharing on both machines and make sure that you log on to the Windows 95 machine with an account (username and password) that has permission to share files on the NT machine.

The second-best solution—a distant second, to be sure—is to connect the two machines using a null-modem cable over the serial port. (NT doesn't support direct connections over a parallel port.) Run the HyperTerminal program on each machine. When prompted, set up a new connection using your COM port in the Connect Using box. Configure the serial ports for their maximum speed; on most computers, that is 115,200 bps. On the machine that will receive files, choose Transfer, Receive File, and specify the destination folder; then choose Transfer, Send File from the other computer and enter the name of the file you wish to transfer. Use wildcards to transfer multiple files; to preserve a directory structure, use an archiving program like WinZip to compress the files first, using its Recurse Folders option.

Hard Drive Handling

I'm setting up a new hard drive on an NT machine. How big can I make each partition, and should I use FAT or NTFS?

Rules for partitioning disks under NT vary, so examine your hardware carefully before you make any formatting decisions. The maximum size of the NT boot partition, regardless of file format, is 4GB, although the actual size may be smaller (typically about 2GB) because of limitations in your system BIOS. Once NT is up and running, it no longer uses the BIOS to access disks. As a result, you can format FAT partitions to a maximum of 4GB, while NTFS partitions may be as large as 2 terabytes.

Use only 16-bit FAT partitions if you plan to dual-boot—Windows 95 doesn't recognize NTFS partitions, and NT 4.0 doesn't recognize the FAT32 partitions that OSR2 allows. NTFS lets you set access restrictions on a file-by-file basis, unlike FAT. On large disks, NTFS is far more efficient than FAT, and it also supports its own built-in compression. It's OK to mix FAT, FAT32, and NTFS partitions on a single system; just make sure that any 16-bit FAT volumes come first.

Make NT See Your CD

I installed a new IDE CD-ROM, but NT doesn't see it. Where do I go to set it up?

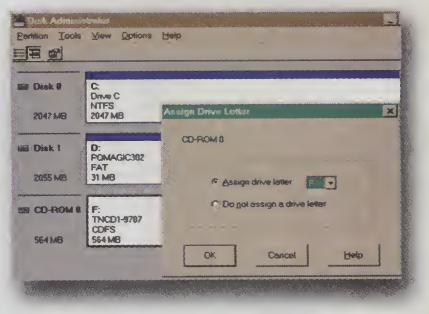
It defies logic, but the solution is easy: Open the Control Panel and double-click on the SCSI Adapters icon. Click on the Drivers tab and choose ATAPI CD-ROM from the top of the list.

Instant Answer: Smart Docking

How do you deal with a notebook docking station? After you've installed all the devices you'll typically use, right-click on the My Computer icon, choose Properties, and click on the Hardware Profiles tab. Use the Copy button to add a new profile and the Properties button to quickly define docking and network settings. To individually enable or disable parts of the system on a per-profile basis, double-click on the Devices or Services icon in the Control Panel, pick an entry from the list, and click on the HW Profiles button.

Instant Answer: Letter Box

Use NT's Disk Administrator to change drive letters for disk partitions and CD-ROM drives in your system. You'll find this essential tool in the Administrative Tools (Common) group on the Programs menu. Select a disk and a partition, right-click, and choose Assign Drive Letter from the shortcut menu. One major caveat: Although this utility will let you change the letter of your boot drive from C:, don't do it!



SPEED FREAKS, POWER YOUR COMPUTER



FEATURING SDRAM MEMORY, AN ULTRA ATA HARD DRIVE AND AGP CAPABILITY.

MONGERS, SHOW-OFFS, IS READY.

NEW DELL DIMENSION XPS D300
300MHz PENTIUM® II PROCESSOR FEATURING MMX™ TECHNOLOGY

- 64MB SDRAM Memory
- 512KB Integrated L2 Cache
- *NEW* 8.4GB Ultra ATA Hard Drive with 512KB Cache (9.5ms)
- *NEW* 1200HS Monitor (17.9" v.i.s.)
- *NEW* Matrox Millennium II 8MB WRAM Video Card^
- 24X Max.§ Variable CD-ROM
- Creative Labs AWE64 Value Sound Card
- Altec Lansing ACS-490 Full Dolby Surround Sound Speakers with Subwoofer
- 56K Capable** U.S.R. x2 WinModem
- Iomega Zip 100MB Internal Drive
- Microsoft® Office 97 Small Business Edition plus Bookshelf 96
- MS Windows® 95/MS IntelliMouse
- 3 Year Limited Warranty with 1 Year On-site Service

$3799

Business Lease◊: $134/Mo.
Order Code #500928

NEW DELL DIMENSION XPS D300
300MHz PENTIUM II PROCESSOR FEATURING MMX TECHNOLOGY

- 64MB SDRAM Memory
- 512KB Integrated L2 Cache
- *NEW* 4.3GB Ultra ATA Hard Drive (9.5ms)
- 1000TX Trinitron® Monitor (15.9" v.i.s.)
- *NEW* STB Velocity 4MB AGP Video Card*
- 24X Max.§ Variable CD-ROM
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-90 Speakers
- 56K Capable** U.S.R. x2 WinModem
- Microsoft Office 97 Small Business Edition plus Bookshelf 96
- MS Windows 95/MS IntelliMouse
- 3 Year Limited Warranty with 1 Year On-site Service

PICTURED SYSTEM

$2999

Business Lease: $108/Mo.
Order Code #500929

NEW DELL DIMENSION XPS D266
266MHz PENTIUM II PROCESSOR FEATURING MMX TECHNOLOGY

- 32MB SDRAM Memory
- 512KB Integrated L2 Cache
- *NEW* 6.4GB Ultra ATA Hard Drive (9.5ms)
- *NEW* STB Velocity 4MB AGP Video Card*
- 1000TX Trinitron Monitor (15.9" v.i.s.)
- 24X Max.§ Variable CD-ROM
- Creative Labs AWE64 Value Sound Card
- Altec Lansing ACS-290 Speakers with Subwoofer
- 56K Capable** U.S.R. x2 WinModem
- Microsoft Office 97 Small Business *Edition plus* Encarta 97
- MS Windows 95/MS IntelliMouse
- 3 Year Limited Warranty with 1 Year On-site Service

$2799

Business Lease: $101/Mo.
Order Code #500927

NEW DELL DIMENSION XPS D233
233MHz PENTIUM II PROCESSOR FEATURING MMX TECHNOLOGY

- 32MB SDRAM Memory
- 512KB Integrated L2 Cache
- *NEW* 4.3GB Ultra ATA Hard Drive (9.5ms)
- 1000LS Monitor (15.9" v.i.s.)
- *NEW* STB Velocity 4MB AGP Video Card*
- 24X Max.§ Variable CD-ROM
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-90 Speakers
- 56K Capable** U.S.R. x2 WinModem
- Microsoft Office 97 Small Business Edition plus Bookshelf 96
- MS Windows 95/MS IntelliMouse
- 3 Year Limited Warranty with 1 Year On-site Service

$2399

Business Lease: $87/Mo.
Order Code #500926

Yeah, we're talking to you. The one who likes to be on the edge. Correction. Make that over the edge. Which is exactly where the Dell Dimension XPS D300 is going to take you, screaming at a processor speed of 300MHz. More than just the latest megahertz demon, we've equipped this Intel® Pentium® II processor-based system with some of the industry's fastest features around. Like high-speed SDRAM memory that "bursts" data twice as fast as EDO memory. Perfect for optimizing multimedia applications. And an Ultra ATA hard drive; fast, efficient and up to 8.4GBs big. With two times the data transfer rate of non-Ultra ATA hard drives. And the newest muscle-machine status symbol: Advanced Graphics Port video capability. Faster than the traditional PCI bus, this techno-workhorse boasts accelerated graphic performance for both 2D and 3D applications. So give us a call and we'll build you one of these monsters today. Then strap yourself in for a real power trip.

DELL®

TO ORDER TOLL-FREE

888-684-3355

TO ORDER ONLINE

www.dell.com/buydell

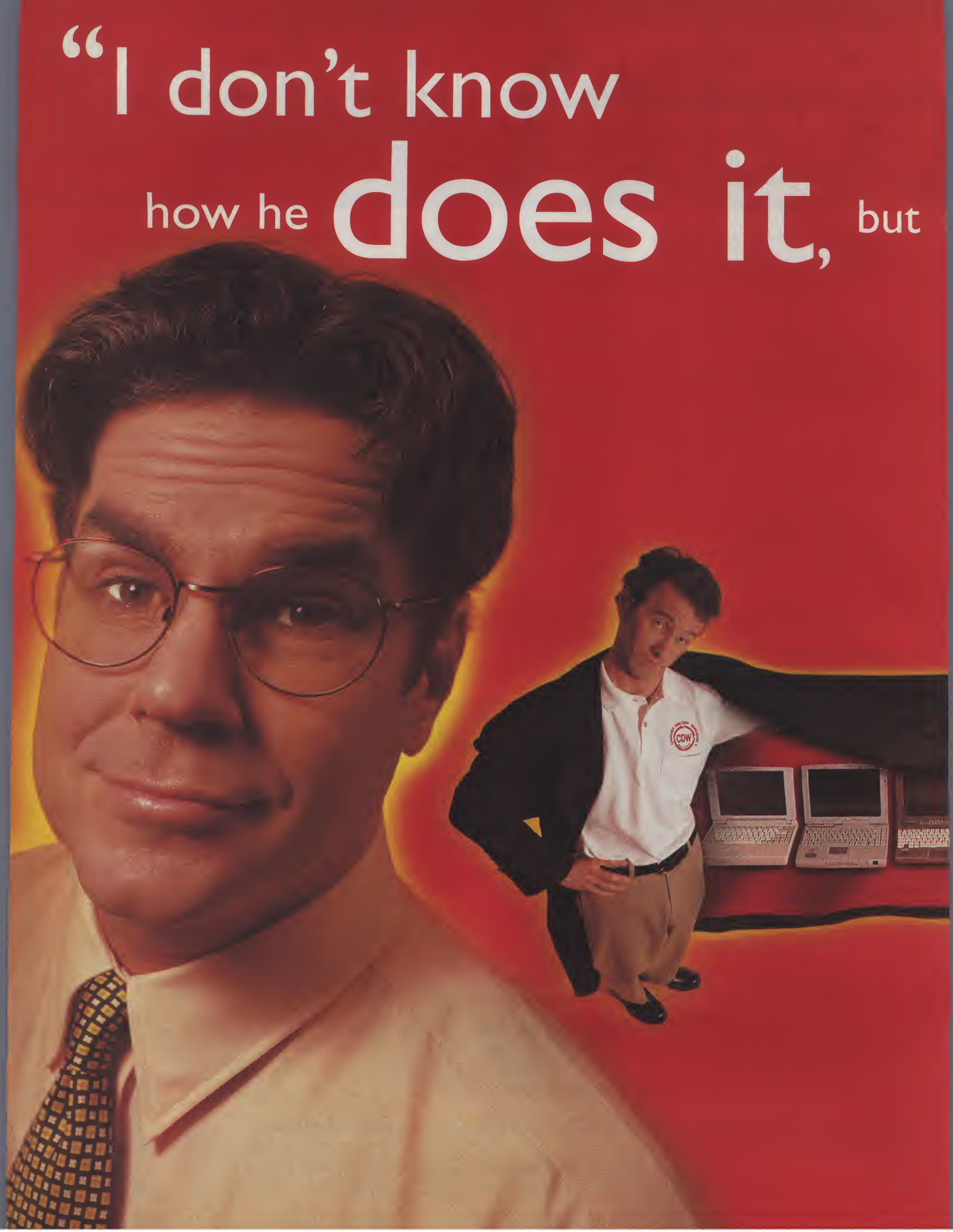
Mon-Fri 7am-9pm CT • Sat 10am-6pm CT
Sun 12pm-5pm CT In Canada, call 800-233-0750
GSA Contract #GS-35F-4076D

Keycode #02261

***Product, as configured, will ship by October 20. Please call for updated shipment information.**

†For a complete copy of our Guarantees or Limited Warranties, please write Dell USA L.P., Attn: Warranty, One Dell Way, Round Rock, TX 78682. ◊Leasing arranged by third-party leasing companies to qualified customers. ^On-site service provided by an independent third-party provider. May not be available in certain remote areas. ^4MB Baseboard with a 4MB Upgrade Module. §24X Max./12X Min. **x2 products are capable of 56Kbps. Due to FCC rules that restrict power output, however, current download speeds are limited to 53Kbps. Upload speeds are limited to 33.6Kbps. Actual speeds may vary depending on line conditions. *Prices and specifications valid in the U.S. only and subject to change without notice. Intel, the Intel Inside logo and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. MS, Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation. ©1997 Dell Computer Corporation. All rights reserved.

MMX™ intel inside pentium® II PROCESSOR


"I don't know
how he does it, but

Maurice, my account manager at CDW®, always comes up with product alternatives" that save my company money.



Things aren't always what they seem. What may look like a real steal may be downright unproductive for your company's system. Or you could be wasting money paying for something you don't need.

THERE'S SOMEONE AT OUR PLACE WHO CAN HELP YOU SORT IT ALL OUT.

He's your CDW account manager. And once he gets to know you, your company's purchase history and your system, he can turn you on to product options that are more cost-effective and productive for your company. And save you a lot of time and aggravation in the process.

GET MORE THAN JUST A GREAT PRICE.

For example, he'll answer your toughest compatibility questions before they become problems. Get you the **free tech support** you need before you need it. And, of course, line up the right price for you.

So give us a call. We'll set you up with your own product options expert. A business computer specialist who knows what's happening with all the different products from all the different manufacturers. That way, your company can choose from a huge selection of brand-name products like **IBM®**, **Compaq®**, **Hewlett-Packard®**, **Toshiba®** and **Microsoft®** at the best prices, in stock, ready for overnight delivery, and easy credit. You'll also get someone who can help you make the most of it all. And some honest, friendly, professional advice that will save you more than money.

CALL TODAY AND GET SOME FREE, OBJECTIVE ADVICE AND A FREE CDW CATALOG.



Check out some of our products and prices in the back of the magazine. Then give us a call. We'll send you our complete catalog. Or check us out at **www.cdw.com**. We think you'll discover that when it comes to getting the right, unbiased advice, as well as the right price, CDW is your only viable alternative.

CDW COMPUTER DISCOUNT WAREHOUSE™

The right price. The right advice.

800-760-4239 See our ad in the back

Circle 144 on reader service card.

Copyright 1997 by CDW Computer Centers, Inc.

CDW® and IBM Business Partner offer you a rare sales tool. It's called double coverage.

CDW and IBM offer the perfect balance of solutions, savings and selection.

All IBM computers combine value pricing, advanced performance, upgradeability and superior dependability with a host of features tailored to suit your most demanding computing needs.

At **CDW**, we'll give you more than just a great price. We'll set you up with your own personal account manager who'll offer honest, friendly and professional advice that'll save you more than money. We'll custom configure your new computer purchase–we'll even ship it the same day you buy it. Our team of IBM-trained technicians will offer up their expertise and support should you need it. And we'll provide you the comfort of knowing that **CDW** is the #1 direct reseller of IBM products–we know IBM like no one else.



"Free with every order: your own personal **CDW** account manager."

Desktops

QUALITY EXPRESS SERVICE AVAILABLE from CDW®

One great plan. One great price.
Only $269
Should you have a computer problem, simply make one TOLL-FREE CALL!
Call your CDW account manager for details!





Aptiva C3E
233MHz Pentium MMX
32MB RAM/4.2GB HD
16X CD-ROM
33.6K bps modem
$1939.05 CDW 90536

C3D 32MB/4.2GB/DVD
CDW 90535 $2699.00

Aptiva S9C
200MHz Pentium MMX
32MB RAM/4.2GB HD
16X CD-ROM
33.6K bps modem
$1939.05 CDW 83775

S3C 233MHz/4.2GB
CDW 90537 $2299.00
S35 233MHz/6.4GB
CDW 90538 $2699.00







PC 300GL
166MHz Pentium
16MB RAM/1.2GB HD
—
256KB L2 cache
$999.63 CDW 85188

16MB/2.5GB
CDW 85190 $1109.18
16MB/2.5GB/16X
CDW 85189 $1366.50
166MHz MMX/2.5GB
CDW 85405 $1419.28

PC 300XL
233MHz Pentium II
32MB RAM/2.5GB HD
16X CD-ROM
512KB L2 cache
$2296.14 CDW 86313

233MHz/2.5GB
CDW 86314 $1999.36
266MHz/4.2GB
CDW 86315 $2659.12

PC 365
200MHz Pentium Pro
32MB RAM/2.5GB HD
16X CD-ROM
Win NT Workstation
$2349.32 CDW 84735

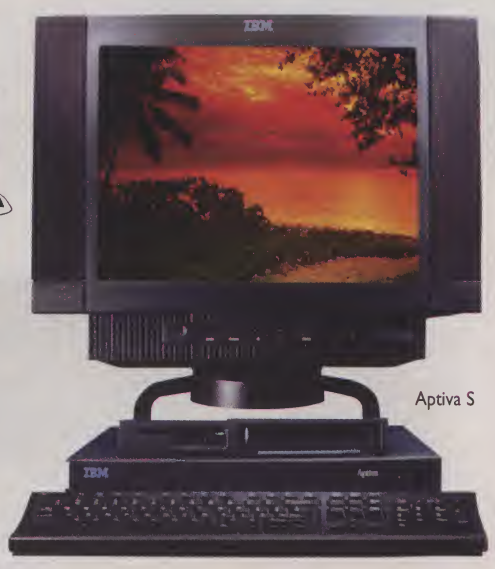
4.2GB/Matrox Millenium
CDW 84737 $2959.99



Intellistation Z Pro
200MHz Pentium Pro
32MB RAM/2.1GB HD
16X CD-ROM
Matrox Millennium
$3619.33 CDW 88178

64MB/4.5GB
CDW 88179 $4398.97
128MB/4.5GB
CDW 88181 $6429.96

All monitors shown sold separately



Aptiva S

Servers



PC Server 310

200MHz Pentium
32MB RAM/2.1GB HD
8X CD-ROM
file and database server

$2465.91 CDW 89307

5/200MHz/no HD
CDW 89306 **$2098.89**



PC Server 315

180MHz Pentium Pro
32MB RAM/2.1GB HD
8X CD-ROM
entry business network server

$2999.28 CDW 89308

6/180MHz/no HD
CDW 89309 **$2575.43**
6/200MHz/2.1GB HD
CDW 89311 **$2799.96**



PC Server 325

200MHz Pentium Pro
32MB RAM/2.25GB HD
—
mini-tower LAN server

$3969.01 CDW 83521

6/200MHz/no HD
CDW 78653 **$3249.91**
6/200MHz/rackmount
CDW 86296 **$3699.37**



PC Server 330

200MHz Pentium Pro
32MB RAM/2 x 2.25GB HD
8X CD-ROM
symmetrical multi-processing

$7668.88 CDW 82447

6/200MHz/no HD
CDW 83722 **$3739.20**
6/200MHz/no HD
CDW 82445 **$4247.09**



PC Server 704

200MHz Pentium Pro
128MB RAM /no HD
4X CD-ROM
4-way multiprocessor support

$10,954.70 CDW 78291

6/200MHz/256MB RAM
CDW 89937 **$14,179.29**
6/200MHz/256MB RAM
CDW 89938 **$17,039.32**

Notebooks



ThinkPad 380

150MHz Pentium
16MB RAM/1.35GB HD
8X CD-ROM
12.1" dual-scan display
SVGA resolution

$1999.50 CDW 86304

380 16MB/1.08GB
CDW 86302 **$1699.46**
380D 16MB/2.1GB
CDW 86305 **$3287.43**



ThinkPad 560

133MHz Pentium
8MB RAM/2.1GB HD
—
12.1" active-matrix display
4.1 lbs. subnotebook

$3789.45 CDW 81186

560 8MB/2.1GB
CDW 81184 **$1899.56**
560E 16MB/2.1GB
CDW 89290 **$2599.86**



ThinkPad 760XL

166MHz Pentium MMX
16MB RAM/2.1GB HD
optional CD-ROM
12.1" active-matrix display
SVGA resolution

$3869.88 CDW 84102

760XL 32MB/2.1GB/NT
CDW 84103 **$4064.04**
760XD 32MB/3GB/8X
CDW 84101 **$4679.37**
760ED 16MB/2.1GB/6X
CDW 74862 **$3739.72**



ThinkPad 765L

166MHz Pentium MMX
32MB RAM/3GB HD
optional CD-ROM
13.3" active-matrix display
XGA resolution

$5999.71 CDW 89293

765D 32MB/3GB/8X
CDW 89292 **$6659.22**



ThinkPad 760
shown with optional SelectaDock accessories



Your one-stop source.

CDW is the #1 reseller of IBM products in the direct marketing channel.

We've got the best selection of IBM computers at the right prices, in stock and ready for overnight delivery. And we have all of the software and peripherals you need to custom-build your system. We'll even take care of the hard stuff like installation and technical support...free.

Just give us a call.

CDW COMPUTER DISCOUNT WAREHOUSE

The right price.
The right advice.

800-760-4239 See our ad in the back

©1997 CDW® Computer Centers, Inc.

Circle 144 on reader service card.

CDW COMPUTER DISCOUNT WAREHOUSE

The right price.
The right advice.

Get mobile™

COMPUTER DISCOUNT WAREHOUSE™

TOSHIBA

Libretto 50CT

- 75MHz Intel Pentium® processor
- 16MB EDO DRAM standard, expandable to 32MB • 772MB hard drive • 1.44MB external 3.5-inch PC card • 6.1" active-matrix display



1.85 lbs.

$1929.45 CDW 90350

TOSHIBA

Tecra 500CDT

- 120MHz Intel Pentium® processor • 16MB EDO RAM standard, expandable to 144MB • 1.26GB hard drive • 6X CD-ROM drive interchangeable with standard 1.44MB floppy drive • 12.1" active-matrix SVGA color display • Integrated 28.8K bps data/fax/voice modem



$1995.94 CDW 70243

IBM

IBM® ThinkPad® 380D

- 150MHz Intel Pentium® processor
- 16MB EDO RAM standard, expandable to 80MB • 1.35GB hard drive
- 8X CD-ROM drive
- 12.1" dual-scan SVGA color display



$1999.50 CDW 86304

IBM

IBM® ThinkPad 760XD

- 166MHz Intel Pentium® processor with MMX technology
- 32MB EDO RAM standard, expandable to 104MB • 3GB hard drive
- 8X CD-ROM drive
- 12.1" XGA active-matrix color display • 28.8K bps data/fax modem



$4679.37 CDW 84101

Notebooks

Model	Processor	RAM std./max.	Hard drive	CD-ROM	Color display	Modem	Pointing device	Features	Price	CDW
Toshiba										
Satellite 220CDS	133MHz Pentium	16MB/144MB	1.34GB	10X	12.1" dual scan	—	AccuPoint track stick	Lithium ion battery	$1899.13	89777
Satellite Pro 440CDX	133MHz Pentium MMX	16MB/144MB	1.34GB	10X	12.1" dual scan	—	AccuPoint track stick	Lithium ion battery	$2359.54	90351
Satellite Pro 440CDT	133MHz Pentium MMX	16MB/144MB	1.34GB	10X	12.1" active matrix	33.6K bps	AccuPoint track stick	Lithium ion battery	$2799.55	90352
Satellite Pro 460CDT	166MHz Pentium MMX	32MB/160MB	2.02GB	10X	12.1" active matrix	33.6K bps	AccuPoint track stick	Lithium ion battery	$3659.16	90353
Portege 300CT	133MHz Pentium MMX	32MB/64MB	1.5GB	—	10.4" active matrix	33.6K bps	AccuPoint track stick	external floppy	$3369.46	90354
Portege 660CDT	150MHz Pentium	16MB/80MB	1.2GB	10X	11.3" active matrix	28.8K bps	AccuPoint track stick	external floppy	$3899.63	77243
Tecra 500CDT	120MHz Pentium	16MB/144MB	1.26GB	6X	12.1" active matrix	28.8K bps	AccuPoint track stick	16-bit stereo sound	$1995.94	70243
Tecra 510CDT	133MHz Pentium	16MB/144MB	2.1GB	10X	12.1" active matrix	28.8K bps	AccuPoint track stick	16-bit stereo sound	$2699.76	77241
Tecra 520CDT	166MHz Pentium MMX	32MB/160MB	2GB	10X	12.1" active matrix	33.6K bps	AccuPoint track stick	SVGA resolution	$4159.45	90355
Tecra 530CDT	166MHz Pentium MMX	32MB/160MB	2GB	10X	12.1" active matrix	33.6K bps	AccuPoint track stick	XGA resolution	$4579.17	90359
Tecra 730XCDT	150MHz Pentium MMX	16MB/144MB	2GB	10X	12.1" active matrix	28.8K bps	AccuPoint track stick	full duplex speakerphone	$3499.77	80957
Tecra 740CDT	166MHz Pentium MMX	16MB/144MB	3GB	10X	13.3" active matrix	28.8K bps	AccuPoint track stick	video conferencing kit	$4849.62	87964
Tecra 740CDT	166MHz Pentium MMX	16MB/144MB	3GB	10X	13.3" active matrix	28.8K bps	AccuPoint track stick	Windows NT V4.0	$4999.31	87965
Compaq Armada										
1530DM	133MHz Pentium MMX	16MB/80MB	1.4GB	10X	12.1" dual scan	33.6K bps	touch pad	full duplex speakerphone	$2499.00	91507
1550DMT	133MHz Pentium	16MB/80MB	1.4GB	10X	12.1" active matrix	33.6K bps	touch pad	full duplex speakerphone	$2999.00	87070
1580DMT	150MHz Pentium MMX	16MB/80MB	2.1GB	10X	12.1" active matrix	33.6K bps	touch pad	full duplex speakerphone	$3499.00	90959
4130T	133MHz Pentium	16MB/48MB	1.08GB	—	11.8" active matrix	—	touch pad	16-bit stereo sound	$2497.23	71116
4131T	133MHz Pentium	16MB/48MB	1.4GB	—	12.1" active matrix	—	touch pad	16-bit stereo sound	$2849.00	80775
4150	150MHz Pentium MMX	16MB/80MB	1.6GB	—	12.1" dual scan	—	touch pad	16-bit stereo sound	$2999.00	91508
4160T	166MHz Pentium MMX	16MB/80MB	2GB	—	12.1" active matrix	—	touch pad	16-bit stereo sound	$3999.00	91509
7330T	150MHz Pentium MMX	16MB/128MB	2.1GB	—	12.1" active matrix	—	EasyPoint III track stick	16-bit stereo sound	$4399.00	93735
7350MT	166MHz Pentium MMX	32MB/128MB	2.1GB	—	12.1" active matrix	33.6K bps	EasyPoint III track stick	16-bit stereo sound	$4899.00	93736
7710MT	150MHz Pentium MMX	16MB/144MB	1.6GB	optional	12.1" active matrix	33.6K bps	EasyPoint III track stick	64-bit PCI bus	$4399.00	88242
7730MT	166MHz Pentium MMX	32MB/144MB	2.1GB	optional	12.1" active matrix	33.6K bps	EasyPoint III track stick	64-bit PCI bus	$4999.00	88241
7750MT	166MHz Pentium MMX	32MB/144MB	2.1GB	optional	12.1" active matrix	33.6K bps	EasyPoint III track stick	64-bit PCI bus	$5799.00	88240
Compaq Presario										
1610	150MHz Pentium MMX	16MB/80MB	1.6GB	14X	12.1" dual scan	—	touch pad	16-bit stereo sound	$2699.00	90515
1585DMT	150MHz Pentium MMX	16MB/80MB	2.1GB	12X	12.1" active matrix	33.6K bps	touch pad	16-bit stereo sound	$3499.00	92232
IBM ThinkPad										
380	150MHz Pentium	16MB/80MB	1.08GB	optional	12.1" dual scan	—	TrackPoint III track stick	16-bit stereo sound	$1699.46	86302
380D	150MHz Pentium	16MB/80MB	1.35GB	8X	12.1" dual scan	—	TrackPoint III track stick	16-bit stereo sound	$1999.50	86304
380D	150MHz Pentium MMX	16MB/80MB	2.1GB	8X	12.1" active matrix	—	TrackPoint III track stick	16-bit stereo sound	$3287.43	86305
560	133MHz Pentium	8MB/40MB	2.1GB	—	11.3" dual scan	—	TrackPoint III track stick	external floppy	$1899.56	81184
560	133MHz Pentium	8MB/40MB	2.1GB	—	12.1" active matrix	—	TrackPoint III track stick	external floppy	$3789.45	81186
560E	150MHz Pentium MMX	16MB/80MB	2.1GB	—	11.3" dual scan	—	TrackPoint III track stick	16-bit stereo sound	$2599.86	89290
560E	166MHz Pentium MMX	16MB/80MB	2.1GB	—	12.1" active matrix	—	TrackPoint III track stick	16-bit stereo sound	$4186.26	89291
760ED	133MHz Pentium	16MB/72MB	2.1GB	6X	12.1" active matrix	28.8K bps	TrackPoint III track stick	XGA resolution	$3739.72	74862
760E	150MHz Pentium	16MB/72MB	2.1GB	optional	12.1" active matrix	28.8K bps	TrackPoint III track stick	XGA resolution	$3578.40	74863
760XL	166MHz Pentium MMX	16MB/104MB	2.1GB	optional	12.1" active matrix	—	TrackPoint III track stick	16-bit stereo sound	$3769.88	84102
760XL	166MHz Pentium MMX	32MB/104MB	2.1GB	optional	12.1" active matrix	—	TrackPoint III track stick	Windows NT V4.0	$4064.04	84103
760XD	166MHz Pentium MMX	32MB/104MB	3GB	8X	12.1" active matrix	28.8K bps	TrackPoint III track stick	XGA resolution	$4679.37	84101
765L	166MHz Pentium MMX	32MB/104MB	3GB	—	13.3" active matrix	—	TrackPoint III track stick	16-bit stereo sound	$5999.71	89293
765D	166MHz Pentium MMX	32MB/104MB	3GB	8X	13.3" active matrix	28.8K bps	TrackPoint III track stick	Mwave DSP subsystem	$6659.22	89292

800-760-4239

CDW® offers FREE configuration of your new notebook purchase!

www.cdw.com/pcc

©1997 CDW Computer Center, Inc.
200 N. Milwaukee Avenue, Vernon Hills, IL 60061 PCC3234C 10/97

with the portable computing leaders



COMPAQ — Armada 1530DM

- 133MHz Intel Pentium® processor with MMX Technology
- 16MB RAM standard, expandable to 80MB
- 1.4GB hard drive
- 10X CD-ROM drive
- 12.1" dual-scan color display
- 33.6K bps data/fax modem



$2499.00 CDW 91507

COMPAQ — Armada 7730MT

- 166MHz Intel Pentium® processor with MMX technology
- 32MB RAM standard, expandable to 144MB
- 2.1GB hard disk drive
- Optional 8X CD-ROM drive
- 12.1" active-matrix color display
- Integrated 33.6K bps data fax modem with DSVD



$4999.00 CDW 88241

HITACHI — VisionBook Plus 4140

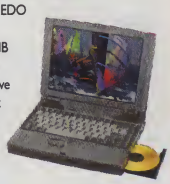
- 133MHz Intel Pentium® processor
- 16MB RAM
- 1.4GB hard drive
- 10X CD-ROM drive
- 12.1" dual-scan color display
- 33.6K bps data/fax modem



$1799.00 CDW 91046

TOSHIBA — Satellite Pro 440CDT

- 133MHz Intel Pentium® processor with MMX technology
- 16MB EDO RAM standard, expandable to 144MB
- 1.34GB hard drive
- 10X CD-ROM drive
- 12.1" active-matrix SVGA color display
- 33.6K bps internal data/fax modem



$2799.55 CDW 90352

Notebooks

Model	Processor	RAM std./max.	Hard drive	CD-ROM	Color display	Modem	Pointing device	Features	Price	CDW
AST Ascentia										
A60+	150MHz Pentium	16MB/80MB	1.44GB	10X	12.1" active matrix	—	SmartPoint touch pad	SRS 3D sound	$2658.65	86918
A60+	150MHz Pentium	16MB/80MB	2.1GB	10X	12.1" active matrix	33.6K bps	SmartPoint touch pad	SRS 3D sound	$2979.63	89632
A70+	150MHz Pentium MMX	16MB/80MB	1.44GB	10X	12.1" active matrix	33.6K bps	SmartPoint touch pad	SRS 3D sound	$3075.78	86919
A70+	150MHz Pentium MMX	16MB/80MB	2.1GB	10X	12.1" active matrix	33.6K bps	SmartPoint touch pad	SRS 3D sound	$3445.14	89633
P70	150MHz Pentium MMX	32MB/80MB	2.1GB	10X	12.1" active matrix	28.8K bps	SmartPoint touch pad	32-bit PCI bus	$3559.65	87580
P80	166MHz Pentium MMX	32MB/80MB	3GB	10X	12.1" active matrix	28.8K bps	SmartPoint touch pad	32-bit PCI bus	$3997.62	87629
Acer Texas Instruments										
Extensa 610CD	150MHz Pentium	16MB/64MB	1.4GB	10X	11.3" dual scan	—	touch pad	external floppy	$1964.67	88530
Extensa 610CDT	150MHz Pentium	16MB/64MB	1.4GB	10X	11.3" active matrix	—	touch pad	external floppy	$2549.84	88531
Extensa 660CD	166MHz Pentium MMX	16MB/80MB	1.35GB	10X	12.1" dual scan	—	touch pad	16-bit stereo sound	$2699.55	83363
Extensa 660CDT	166MHz Pentium MMX	16MB/80MB	2.1GB	10X	11.3" active matrix	—	touch pad	16-bit stereo sound	$3179.04	83364
TravelMate 7060	166MHz Pentium MMX	32MB/64MB	2GB	10X	12.1" active matrix	33.6K bps	touch pad	16-bit stereo sound	$4289.59	88471
TravelMate 7063NT	166MHz Pentium MMX	32MB/64MB	3GB	10X	12.1" active matrix	33.6K bps	touch pad	Windows NT V4.0	$4949.69	88472
TravelMate 6160	166MHz Pentium MMX	32MB/96MB	2.1GB	10X	12.1" active matrix	33.6K bps	track stick	external floppy	$4699.26	81406
Fujitsu LifeBook										
435Dx	133MHz Pentium MMX	16MB/80MB	1.3GB	10X	12.1" dual scan	—	touch pad	SVGA resolution	$1999.00	92945
555Tx	150MHz Pentium MMX	16MB/80MB	2GB	10X	12.1" active matrix	33.6K bps	GlidePoint touch pad	16-bit stereo sound	$3499.00	85008
565Tx	166MHz Pentium MMX	32MB/96MB	2GB	20X	12.1" active matrix	33.6K bps	GlidePoint touch pad	XGA resolution	$4299.00	92055
635Tx	133MHz Pentium MMX	16MB/80MB	2GB	16X	12.1" active matrix	33.6K bps	touch pad	16-bit stereo sound	$3199.00	92058
655Tx	150MHz Pentium MMX	16MB/80MB	1.3GB	8X	12.1" active matrix	33.6K bps	touch pad	external floppy	$3799.00	85013
656Tx	150MHz Pentium MMX	16MB/80MB	2GB	16X	12.1" active matrix	33.6K bps	touch pad	SVGA resolution	$4299.00	92061
Hitachi VisionBook										
4140	133MHz Pentium	16MB/128MB	1.4GB	10X	12.1" dual scan	33.6K bps	touch pad	16-bit stereo sound	$1799.00	91046
4150x	150MHz Pentium MMX	16MB/128MB	1.4GB	10X	12.1" dual scan	33.6K bps	touch pad	16-bit stereo sound	$2499.00	91047
4360x	166MHz Pentium MMX	16MB/128MB	2.1GB	10X	12.1" active matrix	33.6K bps	touch pad	SVGA resolution	$3499.00	91049
7340	133MHz Pentium MMX	16MB/144MB	1.4GB	10X	12.1" active matrix	56K bps	GlidePoint touch pad	16-bit stereo sound	$3199.00	91051
7360	166MHz Pentium MMX	32MB/144MB	2.1GB	10X	12.1" active matrix	56K bps	GlidePoint touch pad	16-bit stereo sound	$4499.00	91053
7560	166MHz Pentium MMX	32MB/144MB	3GB	10X	13.3" active matrix	56K bps	GlidePoint touch pad	XGA resolution	$4999.00	91054
8560	166MHz Pentium MMX	16MB/80MB	2.1GB	10X	13.3" active matrix	56K bps	GlidePoint touch pad	XGA resolution	$4799.00	91056
Hewlett-Packard OmniBook Notebook PCs										
800CT	166MHz Pentium MMX	16MB/80MB	2GB	—	10.4" active matrix	—	TrackPoint III track stick	external floppy	$3679.68	85727
5700CT	150MHz Pentium MMX	16MB/128MB	1.86GB	optional	12.1" active matrix	—	TrackPoint III track stick	16-bit stereo sound	$3597.52	85720
5700CT	166MHz Pentium MMX	16MB/128MB	1.86GB	optional	12.1" active matrix	—	TrackPoint III track stick	16-bit stereo sound	$4039.53	85721
5700CTX	166MHz Pentium MMX	16MB/128MB	1.86GB	optional	12.1" active matrix	—	TrackPoint III track stick	XGA resolution	$4098.82	85723
5700CTX	166MHz Pentium MMX	32MB/128MB	2.79GB	optional	12.1" active matrix	—	TrackPoint III track stick	XGA resolution	$4574.01	85722
Samsung Sens Pro										
521	133MHz Pentium	16MB/80MB	1.44GB	10X	12.1" active matrix	—	SensPad touch pad	16-bit stereo sound	$2349.27	88011
523	133MHz Pentium	32MB/80MB	2.1GB	10X	12.1" active matrix	33.6K bps	SensPad touch pad	16-bit stereo sound	$2834.59	88008
525	150MHz Pentium MMX	48MB/80MB	2.1GB	10X	12.1" active matrix	33.6K bps	SensPad touch pad	16-bit stereo sound	$3298.71	88002

"Check out these **HOT BUYS**"

Buy **any computer** and pick up Symantec's Norton Utilities and/or Norton AntiVirus for **HALF-PRICE!**



$33.00 CDW 90890



$34.09 CDW 90888

Must be on same invoice as computer purchase. Offer valid through 9/30/97 or while supplies last. Restrictions may apply; call your CDW account manager for details. Promotional packaging; product appearance may differ.

Nobody does prices better than CDW®

800-760-4239

www.cdw.com/pcc

Circle 144 on reader service card.

©1997 CDW® Computer Centers, Inc.

PCC3234D 10/97 200 N. Milwaukee Avenue, Vernon Hills, IL 60061

CDW®

CDW COMPUTER DISCOUNT WAREHOUSE

The right price.
The right advice.

PC brands™

IBM PC300GL

- 166MHz Intel Pentium® processor with MMX technology
- 16MB SyncDRAM standard, expandable to 128MB
- 2.5GB hard drive
- 1-year onsite limited warranty; 3-year parts warranty



Monitor sold separately

$1179.37 CDW 89298

Deskpro 2000 model 5133/1200

- 133MHz Intel Pentium® processor
- 16MB EDO RAM standard, expandable to 128MB
- 1.2MB EIDE hard drive
- 3-year limited warranty includes first year onsite



Monitor sold separately

$979.00 CDW 72608

Presario 4504

- 200MHz Intel Pentium® processor
- 16MB SyncDRAM standard, expandable to 64MB
- 2.1GB EIDE hard drive
- 16X Max EIDE CD-ROM drive
- 56K bps internal data/fax/voice modem
- 1-year parts, 1-year labor warranty; first year onsite



Monitor sold separately

$999.00 CDW 90509

Equium 5160D

- 166MHz Intel Pentium® processor with MMX Technology
- 32MB EDO RAM standard, expandable to 192MB
- 2.1GB hard drive
- 12X CD-ROM drive
- 10/100 Ethernet support



Monitor sold separately

$1418.82 CDW 84248

Desktops

Model	Processor	Chassis	RAM std./max.	Hard drive	CD-ROM	Video	Modem	Ethernet	OS	Features	Price	CDW
Compaq Deskpro 2000												
5133/1200	133MHz Pentium	desktop	16MB/128MB	1.2GB	optional	Cirrus Logic	—	—	Win V3.1/Win 95	Intelligent Manageability	$979.00	72608
5133/2500	133MHz Pentium	desktop	16MB/128MB	2.5GB	optional	Cirrus Logic	—	—	Win V3.1/Win 95	Intelligent Manageability	$1089.00	72613
5166X/2100	166MHz Pentium MMX	desktop	16MB/384MB	2.1GB	optional	S3 Trio64V2/GX	—	—	Win 95	Intelligent Manageability	$1199.00	92269
5166X/3200	166MHz Pentium MMX	desktop	16MB/384MB	3.2GB	optional	S3 Trio64V2/GX	—	—	Win 95	Intelligent Manageability	$1309.00	92838
5166X/3200	166MHz Pentium MMX	mini-tower	16MB/384MB	3.2GB	16X Max	S3 Trio64V2/GX	—	—	Win 95	Intelligent Manageability	$1619.00	92839
5200X/2100	200MHz Pentium MMX	desktop	16MB/384MB	2.1GB	optional	S3 Trio64V2/GX	—	—	Win 95	Intelligent Manageability	$1389.00	92840
5200X/3200/CDS	200MHz Pentium MMX	mini-tower	32MB/384MB	3.2GB	16X Max	S3 Trio64V2/GX	—	—	Win 95	Intelligent Manageability	$1769.00	92842
5200X/3200	200MHz Pentium MMX	desktop	32MB/384MB	3.2GB	optional	S3 Trio64V2/GX	—	—	Win 95	Intelligent Manageability	$1579.00	92841
5233X/3200/CDS	233MHz Pentium MMX	desktop	32MB/384MB	3.2GB	16X Max	S3 Trio64V2/GX	—	—	Win 95	Intelligent Manageability	$1949.00	92843
6200/2500/CD	200MHz Pentium Pro	mini-tower	32MB/192MB	2.5GB	8X	Cirrus Logic	—	—	Win 95	Intelligent Manageability	$2109.00	72765
Compaq Deskpro 4000												
5133/1620	133MHz Pentium	desktop	16MB/256MB	1.62GB	optional	Cirrus Logic	—	10BT	Win V3.1/Win 95	Intelligent Manageability	$1199.00	72768
5133/1620/LS	133MHz Pentium	mini-tower	32MB/256MB	1.62GB	optional	Cirrus Logic	—	10BT	Win V3.1/Win 95	LS-120 drive	$1199.00	72780
5166X/2400	166MHz Pentium MMX	desktop	16MB/256MB	2.4GB	optional	S3 ViRGE/GX	—	10/100	Win 95	Intelligent Manageability	$1389.00	92844
5166X/3200	166MHz Pentium MMX	desktop	32MB/256MB	3.2GB	optional	S3 ViRGE/GX	—	10/100	Win 95	Intelligent Manageability	$1599.00	92845
5166X/3200/CDS	166MHz Pentium MMX	mini-tower	32MB/256MB	3.2GB	16X Max	S3 ViRGE/GX	—	10/100	Win 95	Intelligent Manageability	$1799.00	92846
5200X/2400	200MHz Pentium MMX	desktop	32MB/256MB	2.4GB	optional	S3 ViRGE/GX	—	10/100	Win 95	Intelligent Manageability	$1689.00	92847
5200X/3200	200MHz Pentium MMX	desktop	32MB/256MB	3.2GB	optional	S3 ViRGE/GX	—	10/100	Win 95	Intelligent Manageability	$1759.00	92848
6200/2500/LS/CDS	200MHz Pentium Pro	desktop	32MB/256MB	2.5GB	8X	Cirrus Logic	—	10BT	Win NT V4.0	LS-120 drive	$2149.00	72779
6233X/2500/CDS	233MHz Pentium II	desktop	32MB/192MB	2.5GB	8X	Cirrus Logic	—	10BT	Win NT V4.0	Intelligent Manageability	$2319.00	88475
Compaq Deskpro 6000												
6200/4200/PDS	200MHz Pentium Pro	mini-tower	64MB/256MB	4.2GB	optional	Matrox Millennium	—	10BT	Win NT V4.0	PD-CD Drive	$3099.00	84271
6200/2150/CDS	200MHz Pentium Pro	desktop	32MB/256MB	2.15GB	8X	Matrox Millennium	—	10BT	Win NT V4.0	Ultra SCSI	$2459.00	72786
6200/4200/PDS	200MHz Pentium Pro	desktop	32MB/256MB	4.2GB	optional	Matrox Millennium	—	10BT	Win NT V4.0	PD-CD Drive	$2789.00	84268
6233X/2150/PDS	233MHz Pentium II	desktop	32MB/192MB	2.15GB	optional	Matrox Millennium	—	10BT	Win NT V4.0	PD-CD Drive	$2629.00	88473
6266X/4200/CDS	266MHz Pentium II	desktop	32MB/192MB	4.2GB	8X	Matrox Millennium	—	10BT	Win NT V4.0	Ultra SCSI	$3179.00	88474
Compaq Presario												
2120	150MHz processor with MediaGX	desktop	24MB/128MB	2GB	8X	MPEG full-motion playback	33.6K bps		Win 95	10-stage equalization	$999.00	88172
2200	180MHz processor with MediaGX	desktop	16MB/64MB	1.6GB	8X	MPEG full-motion playback	33.6K bps		Win 95	10-stage equalization	$799.00	92852
4504	200MHz Pentium	mini-tower	16MB/64MB	2.1GB	16X Max	64-bit PCI accelerated	33.6K bps	—	Win 95	JBL Pro stereo speakers	$999.00	90509
4814	233MHz Pentium MMX	mini-tower	32MB/256MB	6.5GB	24X Max	64-bit PCI accelerated	56K bps	—	Win 95	Creative Imaging	$2299.00	90512
4824	233MHz Pentium II	mini-tower	32MB/256MB	6.5GB	24X Max	64-bit PCI accelerated	56K bps	—	Win 95	Zip drive	$2699.00	90513
IBM Aptiva												
C3E	233 MHz Pentium MMX	mini-tower	32MB/64MB	4.2GB	16X Max	ATI 3D RAGE II	33.6K bps	—	Win 95	Intel Video Phone	$1939.05	90536
C3D	233 MHz Pentium MMX	mini-tower	32MB/64MB	4.2GB	8X DVD	ATI 3D RAGE II	33.6K bps	—	Win 95	Intel Video Phone	$2699.00	90535
S9C	200MHz Pentium MMX	mini-tower	32MB/64MB	4.2GB	16X Max	ATI 3D RAGE II	33.6K bps	—	Win 95	Space-saving design	$1939.05	83775
S3C	233MHz Pentium MMX	mini-tower	32MB/64MB	4.2GB	16X Max	ATI 3D RAGE II	33.6K bps	—	Win 95	Space-saving design	$2299.00	90537
S35	233MHz Pentium MMX	mini-tower	48MB/64MB	6.4GB	24X Max	ATI 3D RAGE II	33.6K bps	—	Win 95	Space-saving design	$2699.00	90538
IBM PC Series												
PC 300GL	133MHz Pentium	desktop	16MB/256MB	1.2GB	optional	Cirrus Logic 5446	—	—	Win 95	Two USB ports	$979.89	85191
PC 300GL	166MHz Pentium	desktop	16MB/256MB	1.2GB	optional	Cirrus Logic 5446	—	—	Win 95	Two USB ports	$999.63	85188
PC 300GL	166MHz Pentium	desktop	16MB/256MB	2.5GB	optional	Cirrus Logic 5446	—	—	Win 95	Two USB ports	$1109.18	85190
PC 300GL	166MHz Pentium	desktop	16MB/256MB	2.5GB	16X	Cirrus Logic 5446	—	—	Win 95	Two USB ports	$1366.50	85189
PC 300GL	166MHz Pentium MMX	desktop	32MB/256MB	2.5GB	optional	Cirrus Logic 5446	—	—	Win NT V4.0	Two USB ports	$1419.28	85405
PC 300XL	233MHz Pentium II	desktop	32MB/384MB	2.5GB	16X Max	S3 Trio64V2	—	—	Win NT V4.0	Two USB ports	$2296.14	86313
PC 300XL	233MHz Pentium II	desktop	32MB/384MB	2.5GB	optional	S3 Trio64V2	—	—	Win 95	Ultra SCSI	$1999.36	86314
PC 300XL	266MHz Pentium II	desktop	32MB/384MB	4.2GB	16X Max	S3 Trio64V2	—	—	Win NT V4.0	Two USB ports	$2659.12	86315
PC 300XL	266MHz Pentium II	desktop	32MB/384MB	4.3GB	16X Max	S3 Trio64V2	—	—	Win NT V4.0	Two USB ports	$2969.24	86316

800-760-4239

www.cdw.com/pcc

CDW® offers FREE configuration of your new PC purchase!

©1997 CDW Computer Centers, Inc.
200 N. Milwaukee Avenue Vernon Hills, IL 60061 PCC3234E 10/97

you know at prices you love!

AcerPower Network Ready

- 200MHz Intel Pentium® processor
- 32MB RAM standard
- 2.1GB hard drive
- Pre-installed 10BASE-T Ethernet card



Monitor sold separately

$996.32 CDW 91867

IBM PC 300XL

- 233MHz Intel Pentium® II processor
- 32MB EDO RAM standard
- 2.5GB EIDE hard drive
- 16X Max CD-ROM drive
- 1-year limited warranty; 3-year parts warranty



Monitor sold separately

$1999.36 CDW 86314

HP Vectra 525CD

- 200MHz Intel Pentium® processor with MMX technology
- 24MB EDO standard, expandable to 192MB
- 2.5GB EIDE hard drive
- 16X Max EIDE CD-ROM drive



Monitor sold separately

$1588.65 CDW 84444

HP Vectra VL 5 5/166

- 166MHz Intel Pentium® processor with MMX technology
- 16MB RAM
- 2.5GB hard drive
- 8X CD-ROM drive



Monitor sold separately

$1439.22 CDW 91121

Desktops

Model	Processor	Chassis	RAM std./max.	Hard drive	CD-ROM	Video	Modem	Ethernet	OS	Features	Price	CDW
HP Vectra 500 Series												
525CD	133MHz Pentium	mini-tower	16MB/192MB	1.2GB	8X	S3 Trio64	—	—	Win 95	Microsoft Office 95 Pro	$999.49	76404
520	166MHz Pentium	desktop	16MB/256MB	1.2GB	optional	SiS 6205	—	—	Win 95	Three year warranty	$1039.25	84434
520MCx	166MHz Pentium	desktop	16MB/256MB	1.6GB	16X Max	SiS 6205	33.6K bps	—	Win 95	16-bit stereo sound	$1327.64	84438
525CD	166MHz Pentium	mini-tower	16MB/192MB	1.6GB	16X Max	SiS 6205	—	—	Win 95	MS Word and Publisher	$1234.78	84439
525CDT	166MHz Pentium MMX	mini-tower	16MB/192MB	2.5GB	16X Max	S3 Trio64	—	—	Win 95	Two USB ports	$1489.65	84440
525MCx	166MHz Pentium MMX	mini-tower	24MB/192MB	2.5GB	16X Max	S3 Trio64	33.6K bps	—	Win 95	16-bit stereo sound	$1549.65	84443
525CD	200MHz Pentium MMX	mini-tower	24MB/192MB	2.5GB	16X Max	S3 Trio64	—	—	Win 95	Two USB ports	$1588.65	84444
525MCx	200MHz Pentium MMX	mini-tower	32MB/192MB	3.8GB	16X Max	Matrox Millennium	33.6K bps	—	Win 95	16-bit stereo sound	$1936.70	84445
HP Vectra VE PC Series 3												
VE3 5/133	133MHz Pentium	desktop	16MB/192MB	1GB	optional	SiS 6205	—	—	Win V3.1/Win 95	64-bit PCI graphics	$1034.82	78238
VE3 5/133	133MHz Pentium	desktop	16MB/192MB	1.6GB	optional	SiS 6205	—	—	Win V3.1/Win 95	64-bit PCI graphics	$999.36	91103
VE3 5/166	166MHz Pentium	desktop	16MB/192MB	1.6GB	optional	SiS 6205	—	—	Win V3.1/Win 95	64-bit PCI graphics	$1038.97	91105
VE3 5/200	200MHz Pentium	desktop	16MB/192MB	1.6GB	optional	SiS 6205	—	—	Win V3.1/Win 95	64-bit PCI graphics	$1048.60	91107
HP Vectra VL PC Series 5												
VL5 5/166	166MHz Pentium	desktop	16MB/192MB	1.6GB	optional	S3 Trio64	—	—	Win V3.1/Win 95	Two USB ports	$1166.30	85717
VL5 5/166	166MHz Pentium MMX	desktop	16MB/192MB	2.5GB	8X	S3 Trio64	—	—	Win V3.1/Win 95	Two USB ports	$1377.09	91115
VL5 5/200	200MHz Pentium	desktop	32MB/192MB	2.5GB	8X	S3 Trio64	—	—	Win V3.1/Win 95	Two USB ports	$1449.60	86511
VL5 5/200	200MHz Pentium MMX	desktop	32MB/192MB	2.5GB	8X	S3 Trio64	—	—	Win V3.1/Win 95	Two USB ports	$1598.63	91119
VL5 5/233	233MHz Pentium MMX	desktop	16MB/192MB	2.5GB	optional	S3 Trio64	—	—	Win V3.1/Win 95	Two USB ports	$1598.12	91120
VL5 5/133	133MHz Pentium	mini-tower	16MB/192MB	1.6GB	optional	S3 Trio64	—	—	Win V3.1/Win 95	Two USB ports	$1219.44	86523
VL5 5/166	166MHz Pentium	mini-tower	16MB/192MB	2.5GB	optional	S3 Trio64	—	—	Win V3.1/Win 95	Two USB ports	$1229.50	86527
VL5 5/166	166MHz Pentium MMX	mini-tower	16MB/192MB	2.5GB	8X	S3 Trio64	—	—	Win V3.1/Win 95	Two USB ports	$1439.22	91121
VL5 5/166	166MHz Pentium	mini-tower	32MB/192MB	2.5GB	8X	S3 Trio64	—	—	Win V3.1/Win 95	Two USB ports	$1519.54	86421
VL5 5/200	200MHz Pentium	mini-tower	16MB/192MB	2.5GB	8X	S3 Trio64	—	—	Win V3.1/Win 95	Two USB ports	$1395.28	84733
VL5 5/233	233MHz Pentium MMX	mini-tower	32MB/192MB	4GB	optional	S3 Trio64	—	—	Win V3.1/Win 95	Two USB ports	$1889.76	91123
Toshiba												
Equium 5160D	166MHz Pentium MMX	desktop	32MB/192MB	2.07GB	12X	2MB ATI 3D RAGE II	—	10/100	Win 3.11/Win 95	USB ports, DMI 2.0	$1418.82	84248
Equium 5200D	200MHz Pentium MMX	desktop	32MB/192MB	2.38GB	12X	2MB ATI 3D RAGE II	—	10/100	Win 3.11/Win 95	USB ports, DMI 2.0	$1549.64	84249
Equium 6200D	200MHz Pentium Pro	desktop	32MB/128MB	2.95GB	12X	2MB S3 ViRGE 3D	—	10/100	Win NT V4.0	USB ports, DMI 2.0	$2118.60	84251
Equium 6200M	200MHz Pentium Pro	mini-tower	32MB/512MB	4.24GB	12X	2MB ATI 3D RAGE II+	—	10/100	Win NT V4.0	USB ports, DMI 2.0	$2479.47	84252
Equium 6260M	266MHz Pentium II	mini-tower	32MB/256MB	3.73	16X	4MB ATI 3D RAGE II+	—	10/100	Win NT V4.0	USB ports, DMI 2.0	$2569.07	93106
Infinia 7161	166MHz Pentium MMX	mini-tower	32MB/128MB	2.38GB	12X	2MB S3 ViRGE 3D	33.6K bps	—	Win 95	USB ports, SRS 3D sound	$1649.89	84559
Infinia 7201	200MHz Pentium MMX	mini-tower	32MB/128MB	3GB	12X	2MB S3 ViRGE 3D	33.6K bps	—	Win 95	remote control, TV/FM card	$1989.24	84560
AST Bravo												
LC 5166	166MHz Pentium	desktop	16MB/384MB	1.6GB	optional	ATI mach64 VT3	—	—	Win 95	Two USB ports	$1006.00	93286
LC 5166M	166MHz MMX Pentium	desktop	16MB/384MB	2GB	optional	ATI mach64 VT3	—	—	Win 95	Two USB ports	$1115.18	93288
LC 5200	200MHz Pentium	desktop	16MB/384MB	2GB	optional	ATI mach64 VT3	—	—	Win 95	Two USB ports	$1137.16	93289
MS 5166	166MHz Pentium	mini-tower	32MB/256MB	3GB	16X Max	ATI 3D RAGE II	—	—	Win 95	Two USB ports	$1625.72	91032
MS 5166	166MHz Pentium	desktop	16MB/256MB	2GB	optional	ATI 3D RAGE II	—	—	Win 95	Two USB ports	$1245.78	91034
MS 5166	166MHz Pentium	desktop	32MB/256MB	2GB	16X Max	ATI 3D RAGE II	—	—	Win 95	Two USB ports	$1487.26	91038
MS 5166M	166MHz MMX Pentium	desktop	32MB/256MB	3GB	16X Max	ATI 3D RAGE II	—	—	Win 95	Two USB ports	$1514.69	89552
MS 5166M	166MHz MMX Pentium	desktop	32MB/256MB	2GB	16X Max	ATI 3D RAGE II	—	—	Win NT V4.0	Two USB ports	$1619.87	89553
MS 2000C/95	200MHz Pentium	desktop	32MB/256MB	2GB	16X Max	ATI 3D RAGE II	—	—	Win 95	Two USB ports	$1459.06	89546
MS 2000C/NT	200MHz Pentium	desktop	32MB/256MB	2GB	16X Max	ATI 3D RAGE II	—	—	Win NT V4.0	Two USB ports	$1549.10	89547
MS 3000C/95	200MHz Pentium	desktop	32MB/256MB	3GB	16X Max	ATI 3D RAGE II	—	—	Win 95	Two USB ports	$1487.26	89549
MS 3000C/NT	200MHz Pentium	desktop	32MB/256MB	3GB	16X Max	ATI 3D RAGE II	—	—	Win NT V4.0	Two USB ports	$1586.03	89548
MS 3000C/95	200MHz Pentium	mini-tower	32MB/256MB	3GB	16X Max	ATI 3D RAGE II	—	—	Win 95	Two USB ports	$1564.09	89550
MS 3000C/NT	200MHz Pentium	mini-tower	32MB/256MB	3GB	16X Max	ATI 3D RAGE II	—	—	Win NT V4.0	Two USB ports	$1649.08	89551
MS 3000C/95	200MHz Pentium MMX	mini-tower	32MB/256MB	3GB	16X Max	ATI 3D RAGE II	—	—	Win 95	Two USB ports	$1779.77	89573
MS 3000C/NT	200MHz Pentium MMX	mini-tower	32MB/256MB	3GB	16X Max	ATI 3D RAGE II	—	—	Win NT V4.0	Two USB ports	$1879.98	89574
MS 3000C/95	200MHz Pentium MMX	desktop	32MB/256MB	3GB	16X Max	ATI 3D RAGE II	—	—	Win 95	Two USB ports	$1696.69	91570
MS 3000C/NT	200MHz Pentium MMX	desktop	32MB/256MB	3GB	16X Max	ATI 3D RAGE II	—	—	Win NT V4.0	Two USB ports	$1799.25	91569
MS-T 6200	200MHz Pentium Pro	mini-tower	32MB/128MB	2.5GB	8X	Matrox Millennium	—	—	Win NT V4.0	16-bit stereo sound	$1886.33	76068
LC 6233	233MHz Pentium II	mini-tower	32MB/384MB	2GB	optional	S3 Virge/DX 3D	—	—	Win 95	Two USB ports	$2099.23	89108
LC 6233	233MHz Pentium II	mini-tower	32MB/384MB	2GB	optional	S3 Virge/DX 3D	—	—	Win NT V4.0	Two USB ports	$2197.23	89107

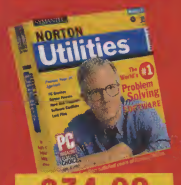


"Check out these **HOT BUYS**"

Buy **any computer** and pick up Symantec's Norton Utilities and/or Norton AntiVirus for **HALF-PRICE!**



$33.00 CDW 90890



$34.09 CDW 90888

Must be on same invoice as computer purchase. Offer valid through 9/30/97 or while supplies last. Restrictions may apply; call your CDW account manager for details. Promotional packaging; product appearance may differ.

CDW® offers toll-free technical support for life of your PC.

800-760-4239

www.cdw.com/pcc

©1997 CDW® Computer Centers, Inc.

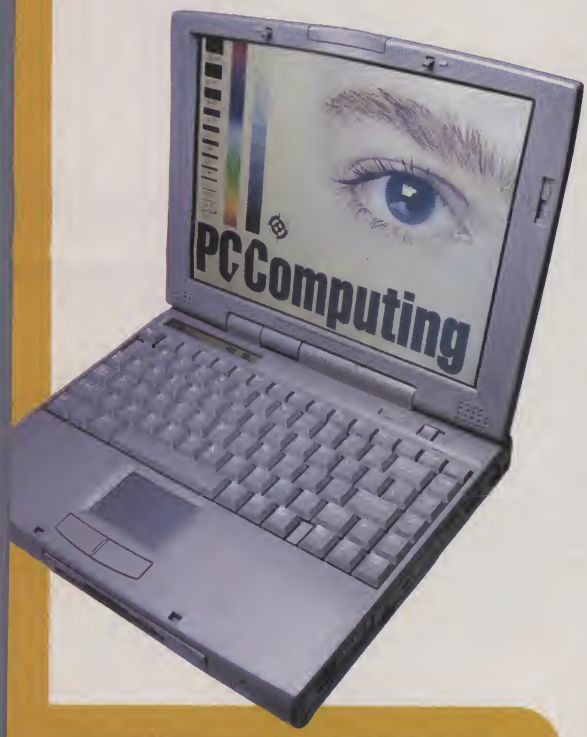
Circle 144 on reader service card.

PCC3234F 10/97 200 N. Milwaukee Avenue, Vernon Hills, IL 60061

CDW®

Ultrafast, ultracheap, and loaded: 44 portables you don't want to miss!

Your Next Note



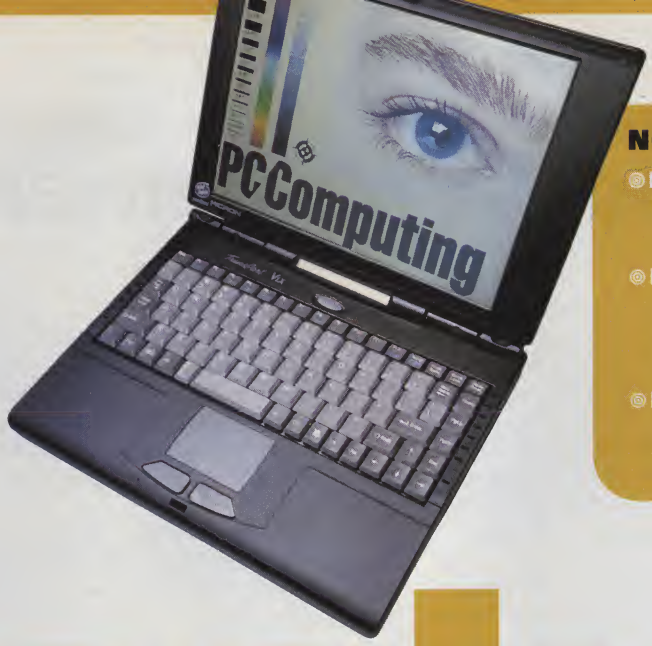
DESKTOP REPLACEMENTS

- **166MHz and 200MHz MMX Pentium CPUs deliver desktop performance replete with high-end multimedia.**
- **12.1-inch displays—an expensive luxury two years ago—are now the industry standard.**
- **The CD-ROM drive swaps places with a floppy, a second battery, or even a second hard drive.**

The waitress shouts to the line cook, "Put legs on it!" when an order is for takeout. It should be a motto for businesspeople everywhere. Put legs on your work? You got it.

Before you dismiss this notion, bear in mind how difficult life would be if you couldn't take your work on the road. How many days can you be away from your e-mail, fax, voice mail, productivity apps, key files, the Web, or access to your company's network? Few of us need all these things in tow, but with the diversity of notebooks today you can make the decision about what travels and what stays behind.

Cutting-edge notebook technology still emphasizes these three key qualities: power, portability, and price. Today's top-drawer desktop replacement notebooks, for example, pack 166MHz to 200MHz MMX Pentium CPUs, superfast video accelerators, swappable



NOTEBOOKS UNDER $2,500

- **Low cost doesn't mean you have to forgo solid 133MHz to 166MHz Pentium CPUs.**
- **Even inexpensive notebooks feature 11.3-inch or larger displays capable of 800 by 600 resolutions.**
- **Multimedia? You bet. The prices of integrated CD-ROM drives and 16-bit audio continue to drop.**

book

BY MARTY JEROME



8-speed to 20-speed CD-ROM drives, and colorful screens that approach the size of conventional desktop monitors. They offer just about everything you get from the big beige box on your desk.

You pay dearly for these features, however—both in the price and the weight you schlepp around. If you need a productivity notebook just for travel, an under–5-pound subnotebook gives your shoulders a well-deserved respite. Today's subnotebooks no longer mean cramped keyboards, tiny screens, and anemic CPUs. Miniaturized PC components have achieved stunning results in recent years.

And so has the drive to lower costs. A great portable can be yours for under $2,500 thanks to the declining prices of LCD panels, memory, and CPUs. If you haven't gone price shopping for a notebook in the last two years, you're in for a very pleasant surprise.

ULTRALIGHT PORTABLES

- **Despite their feathery sub–5-pound weight, today's ultraportables pack 133MHz-and-up Pentium CPUs and 1GB-plus hard drives.**
- **No squinting required thanks to displays from 10.4 to 12.1 inches.**
- **The superskinnies—with waistlines of 1.5 inches or thinner—are redefining subnotebooks.**

PHOTOGRAPHY BY ERNIE FRIEDLANDER

Desktop Replacements

Don't take this personally, but your home, office, and notebook PCs aren't impressed with your custodial skills. Remember this as you shuffle files between computers and perform hardware housekeeping on three hard drives. Maybe it's time to let your systems work for you instead of the other way around. A good start: Downsize all three systems into a single notebook. Those who make the leap to this kind of simplicity tend to become its most ardent evangelists.

The Works Worried about a lack of power if you give up your desktop PC? All except one of the 20 desktop-replacement notebooks we tested come with a 166MHz MMX CPU; three pack a 200MHz processor. You won't be wanting for power. And you won't be missing your big monitor either—all feature big 12.1- or 13.3-inch displays capable of rendering at least 65,000 colors at 800 by 600 resolutions. Several display that many colors at 1,024 by 768 resolutions. And all come with state-of-the-art multimedia, thanks to their MMX CPUs, multispeed CD-ROM drives (20-speed in some cases), and integrated stereo sound.

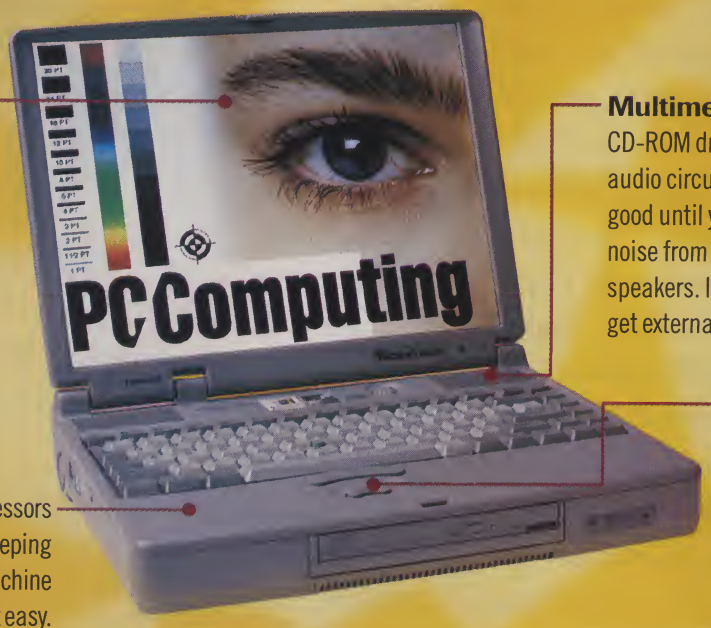
PC Computing's Labs put each notebook through a series of performance, battery, portability, and usability tests. While the usual suspects—NEC, Compaq, Digital, Micron, and Toshiba—led the pack in test results, there were some surprises when the dust settled. Several machines that finished in the middle of the pack came in thousands of dollars less than the big-name boxes, yet include all the state-of-the-art technology.

Even so, they all found it tough going against NEC Computer Systems' Versa 6060, which is far and away the best desktop replacement you can buy. Excellent performance, lengthy battery life, relatively light weight, and a price that undercuts several top dogs by more than $1,500. NEC invented the swappable drive bay that's now an industry standard, so it's no surprise that the Versa accepts a second hard drive, a second battery, a floppy drive, or a CD-ROM drive. And there's a USB port for adding even more options. Need we say more?

The machine's multimedia is probably better than that on your desktop PC, thanks to a 20-speed CD-ROM drive, Zoomed Video, wavetable synthesis, and full-screen MPEG support. Oh, we've got our

Trade-offs?

You know you can't have everything. The name of the game in notebooks is compromise, and you should take yours where it'll hurt least.



Display: Notebook screens continue to grow up to 13.3 inches. But the notebook grows too because bigger batteries are required to backlight roomier displays.

Multimedia: MMX CPU, CD-ROM drive, top-drawer audio circuitry—sounds good until you hear the noise from your notebook's speakers. If sound counts get external models.

Pointing Device: Thank goodness the trackball is finally dead. But with touchpad or pointing stick, you'll still inevitably miss your mouse.

CPU: Fast MMX Pentium processors deliver desktop power. But keeping your 166MHz or 200MHz machine from overheating is not easy.

complaints about the Versa, especially where usability is concerned. Its keyboard layout and response need improvement. Its touchpad is fine for menu work, but for detailed drag-and-drop operations the machine needs a pointing stick. And we can't wait for its 12.1-inch screen to grow to 13.3 inches. Grievances aside, this is the machine to get.

Three for the Road The notebooks from IBM, Micron, and Toshiba scored far better in our usability tests. The IBM ThinkPad 765D's keyboard is still the best on the market—and includes a pointing stick. The Micron Electronics TransPort XKE's slim design lets you slip the machine in a briefcase with room to spare. Toshiba's fine Tecra 740CDT scored well for the astute layout and crisp response of its keyboard. But their eye-popping 13.3-inch displays are what gave all three machines the usability edge.

Heft is as much a factor in notebook usability as keyboard and controls. The Versa (6.9 pounds without an AC adapter) weighed less than the other machines we tested. But Digital's HiNote VP 575 was only slightly heavier at 7.2 pounds and Sceptre Technologies' Soundx 4500 weighed a mere 7.1 pounds when stripped to its skivvies. And Hewlett-Packard's HP OmniBook 5700 CTX was equally totable at 7.3 pounds.

The Big Drain The backlighting on big displays makes punishing demands on battery charge life. Ditto high-megahertz CPUs and CD-ROM drives, which must perpetually spin. Yet power management has become a sophisticated science, as demonstrated by the Micron TransPort and WinBook FX, both of which outlasted their closest competitors by more than 20 percent. Even so, the Versa—a distant third—delivered more than twice the charge life of the slowest system, the Micro X MX Edge. And the Digital HiNote and Toshiba Tecra held up almost as long as the Versa.

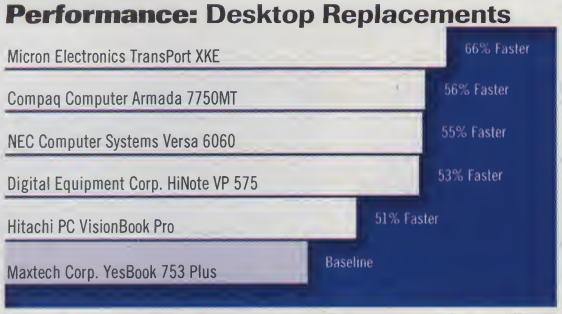


Spoil Yourself: Speed, long battery life, multimedia to die for, and a competitive price—you won't want for anything when you're toting NEC's Versa 6060.

As raw performance goes, the Micron TransPort took top honors while the Compaq Computer Armada 7750MT and the NEC Versa took second and third. Kudos also to the performance of the Digital HiNote and the Hitachi PC VisionBook Pro. In fact, the VisionBook had the best CD-ROM drive performance overall despite its 10-speed drive, and the WinBook FX P166 also fared well with a 10-speed drive. Not to be outdone, the NEC, Micron, and Toshiba also led the pack in CD-ROM drive performance.

Taking everything into consideration, it's hard to pass up the Micron TransPort, thanks to its excellent engineering. It's one of our favorites—especially for delivering presentations—due to its big screen, speedy performance, and long battery life. It would've been the overall winner were it not for its $5,309 price—$1,660 more than the Versa. So if money is no object, the TransPort is the machine to get. On the other hand, if price is key, you'll want our top pick, the NEC Versa 6060. It delivers excellent battery life, strong performance, and fine usability for just $3,649.

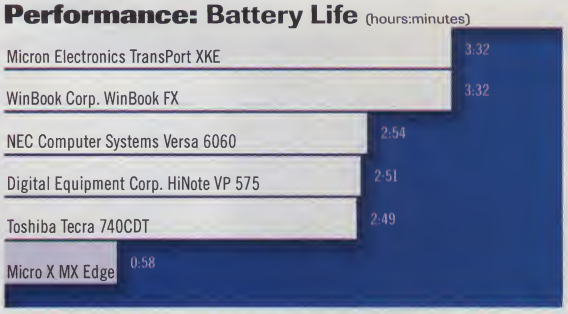
Performance: Desktop Replacements



NOTE: WINSTONE 97 IS A TEST THAT RUNS 14 OF THE MOST POPULAR WINDOWS BUSINESS APPLICATIONS UNDER WINDOWS 95 AND WINDOWS NT.

Whoop It Up: Micron's 166MHz MMX Pentium TransPort XKE not only blew away the competition, it even beat out the 200MHz MMX units we tested.

Performance: Battery Life (hours:minutes)



NOTE: BATTERYMARK 2.0 IS A BATTERY TEST THAT ELECTRONICALLY SIMULATES COMMON USER ACTIVITY.

Long Haul: The Micron TransPort XKE and the WinBook FX are loaded with features, yet their batteries keep you going for three and a half hours.

Top Desktop Replacements

Product	Price[1]	CPU/RAM/Hard Drive[2]	Display[3] (Size/Max. Res.)	Weight[4] (Lbs.)	Pros	Cons	Verdict
PC Computing BEST **NEC Computer Systems Versa 6060** (888) 306-4636 *Reader Service No. 690*	$3,649	166MHz MMX Pentium/ 32MB/2.1GB (80MB/5.3GB)	12.1 inches/ 800 by 600	6.9/ 8.4	Speedy; long battery life; lightest weight; enticing price.	Keyboard and touchpad could be better; needs a bigger screen.	★★★★★ The best dollar value for a desktop replacement.
Compaq Computer Corp. Armada 7750MT (800) 943-7656 *Reader Service No. 691*	$6,008	166MHz MMX Pentium/ 32MB /2.1GB (144MB/3GB)	12.1 inches/ 1,024 by 768	7.7/ 9.0	Top-notch performance; excellent video.	Hefty weight; wallet-walloping price; needs a bigger screen.	★★★★ The machine to buy when performance matters.
Dell Latitude XPi CD M166ST (800) 388-8542 *Reader Service No. 692*	$4,348	166MHz MMX Pentium/ 32MB/2.1GB (80MB/3GB)	12.1 inches/ 1,024 by 768	7.9/ 8.8	Good-looking design; durable.	Back-breaking weight; for the price, we'd like a bigger screen.	★★★★ Beautiful to look at, heavy to hold.
Digital Equipment Corp. HiNote VP 575 (800) 344-4825 *Reader Service No. 693*	$3,999	166MHz MMX Pentium/ 32MB/2.1GB (80MB/2.2GB)	12.1 inches/ 800 by 600	7.2/ 7.8	Fast; excellent battery life; lightweight.	Somewhat pricey for the screen size.	★★★★ Competes with the best.
IBM ThinkPad 765D (800) 426-2968 *Reader Service No. 694*	$6,999	166MHz MMX Pentium/ 32MB/3GB (104MB/6GB)	13.3 inches/ 1,024 by 768	7.9/ 9.5	Great usability and multimedia; roomy screen.	Heavy and expensive.	★★★★ Should be on your shortlist.
Micron Electronics TransPort XKE (800) 733-9513 *Reader Service No. 695*	$5,309	166MHz MMX Pentium/ 32MB/3GB (192MB/5GB)	13.3 inches/ 1,024 by 768	7.8/ 9.9	Top performer; longest battery life; big screen.	Pricey and hefty.	★★★★ The best of everything—but it will cost you.
Toshiba America Tecra 740CDT (800) 334-3445 *Reader Service No. 696*	$6,099	166MHz MMX Pentium/ 32MB/2.1GB (144MB/5GB)	13.3 inches/ 1,024 by 768	8.6/ 10.7	Gorgeous big screen; great battery life.	It'll make your shoulders ache and your wallet light.	★★★★ A superb presentation machine, but heavy and expensive.
WinBook Corp. WinBook FX (800) 965-5758 *Reader Service No. 697*	$3,599	166MHz MMX Pentium/ 32MB/2.1GB (80MB/3GB)	12.1 inches/ 1,024 by 768	7.2/ 8.9	Lightweight; excellent battery life; budget-pleasing price.	A larger screen would be nice.	★★★★ A notebook primed to beat the big guys.

[1]ESTIMATED STREET PRICE. [2]HARD DRIVE AS TESTED (MAXIMUM RAM/HARD DRIVE). [3]ACTIVE MATRIX. [4]WEIGHT WITHOUT ACCESSORIES/WITH ACCESSORIES.

★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

continued on page 263

Desktop Replacements: Usability Close-up



IBM ThinkPad 765D: You won't miss your standard keyboard with the ThinkPad's full-size keys.



Micron TransPort XKE: Can't decide between a pointing stick or a touchpad? Have both.



NEC Versa 6060: Your shoulders will thank you when you tote this 6.9-pound multimedia machine.



microsoft outlook 97

palm pilot

where can't you go today?

Just great! 3 days, 15 meetings and 9 new contacts later and you still haven't found time to copy all that new information from your PalmPilot into Outlook in your Office '97 suite. What's the point of a handy-dandy pocket-sized organizer if you can't get it to synch with any of the Microsoft programs on your PC?

DataViz knows the way.

For one stop synching between your PalmPilot and Outlook 97 or Schedule Plus 7.0a, there's new **Desktop To Go** ™, from DataViz, the file compatibility experts. **Desktop To Go** offers an easy way for your desktop contact management or scheduling software to synchronize with the PalmPilot's Address Book, Date Book, To Do List and Memo Pad. All recent additions, deletions or changes are automatically updated on the desktop and the PalmPilot. Only **Desktop To Go** offers you total control over how you synchronize your important data. Your choice, your way. And because we integrate fully with the PalmPilot's HotSync technology, your data updates are always just a push-button away.





For details, call ***1.800.270.0030 ext.178*** *or visit our web site at http://www.dataviz.com/pcc*

And find out how to get your PalmPilot in synch with Microsoft.

Runs on Windows 95 and Windows NT 4.0.

DATAVIZ®

Circle 157 on reader service card.

PLATINUM Palm Pilot™ COMPATIBLE

All product names are trademarks of their respective holders.

Available at this location. MICRO CENTER



A Handful Of Reasons To Buy The New Backpack® Bantam™ CD-ROM Drive.



Multi-media capabilities. CD-ROM and Windows™ sound in one package (also available without sound).

It's the smallest, the fastest, and the best-looking, lightweight parallel port CD-ROM drive available—and it fits in the palm of your hand. It's the new backpack bantam CD-ROM drive with integral Windows™ stereo sound. You'll tote it anywhere. Everywhere. Installation is a breeze. Simply plug this handy little drive into the printer port of any IBM-compatible pc or notebook. Use it with Windows (95, 3.X, NT*), DOS*, and OS/2*. What about your printer? The bantam has smart printer pass-through. It's a lot to put in one sleek package, but we did it.



One cable connection puts port•ability in your hands. Cool!



A travel light CD-ROM solution.

Free CASE LOGIC carrying case with purchase.
A $32.95 suggested retail value. (Limited Time Offer)



backpack® bantam™

MicroSolutions
The port•*ability* leader.

Ph: 800-298-1214 (US and Canada)
or 815-756-3411, Fax: 815-756-2928
Internet: www.micro-solutions.com

Circle 151 on reader service card.

FamilyPC Rating ★★★★

*Sound not supported under DOS, NT, or OS/2

Available through computer dealers, computer superstores, and mail order catalogs.

Top Desktop Replacements

continued from page 260

Product	Price[1]	CPU/RAM/Hard Drive[2]	Display[3] (Size/Max. Res.)	Weight[4] (Lbs.)	Pros	Cons	Verdict
All Computer Technology Brillianta ND-5127A (800) 775-1953 *Reader Service No. 698*	$3,598	166MHz MMX Pentium/32MB/2.1GB (128MB/5GB)	13.3 inches/1,024 by 768	8.3/9.3	Big screen; seductive price.	Dismal performance; too heavy.	☆☆☆ A machine for the desktop, not for the road.
AMS Tech TravelPro 2010CX (800) 886-2671 *Reader Service No. 699*	$3,995	166MHz MMX Pentium/32MB/2.1GB (80MB/2.1GB)	13.3 inches/1,024 by 768	7.5/9.4	Lovely display; luggable weight; fair price.	Lethargic performance; weak battery life.	☆☆☆ A solid presentation machine, but keep it near an AC outlet.
Brick Computer Ergo CD-Power Brick 3 (800) 495-3746 *Reader Service No. 700*	$3,495	200MHz MMX Pentium/32MB/2.1GB (80MB/3.2GB)	12.1 inches/800 by 600	7.9/8.8	Solid performance; great price.	Ponderous weight.	☆☆☆ A fine desktop replacement for the strong of shoulder.
Fujitsu PC Corp. LifeBook 655TX (888) 466-8434 *Reader Service No. 701*	$3,799	150MHz MMX Pentium/32MB/1.3GB (80MB/1.3GB)	12.1 inches/800 by 600	7.9/8.7	Good performance and battery life; decent price.	Could stand to slim down.	☆☆☆ A solid contender.
Hewlett-Packard HP OmniBook 5700 CTX (800) 322-4772	$4,590	166MHz MMX Pentium/32MB/3GB (128MB/3GB)	12.1 inches/1,024 by 768	7.3/9.1	Pleasing weight.	Pricey; middling battery life and performance.	☆☆☆ Wait for the sale.
Hitachi PC VisionBook Pro (800) 555-6820 *Reader Service No. 702*	$4,999	166MHz MMX Pentium/32MB/2.1GB (80MB/3GB)	13.3 inches/1,024 by 768	7.6/9.1	Big screen; excellent performance.	Lofty price tag.	☆☆☆ A speed (and price) demon.
Micro Express NP7200MMX (800) 989-9900 *Reader Service No. 703*	$3,399	200MHz MMX Pentium/32MB/1.3GB (144MB/2.6GB)	12.1 inches/800 by 600	7.9/9.1	Amazing price; decent performance.	Heavy load; skimpy battery life.	☆☆☆ A bargain price for a 200MHz Pentium.
Sceptre Technologies Soundx 4500 (800) 788-2878 *Reader Service No. 705*	$3,495	166MHz MMX Pentium/32MB/2GB (80MB/2GB)	12.1 inches/800 by 600	7.1/7.7	Excellent travel weight and price; fine performance.	Usability needs some work; ditto fit and finish.	☆☆☆ A pleasing—and affordable—traveling companion.
Tiger Direct Tiger GT Pentium 166MMX (800) 830-0056 *Reader Service No. 706*	$2,459	166MHz MMX Pentium/32MB/1.6 GB (80MB/2GB)	12.1 inches/1,024 by 768	7.5/8.3	Shoulder-friendly travel weight; least expensive of the bunch.	Lethargic performance.	☆☆☆ Easy on your wallet and your shoulder.
Xenocom Hyperbook (888) 446-4667 *Reader Service No. 704*	$2,549	166MHz MMX Pentium/32MB/2GB (128MB/3GB)	12.1 inches/800 by 600	7.8/9.2	Fetching price.	Heavy; sluggish performance; weak battery life.	☆☆☆ A fair price for a midrange machine.
Maxtech Corp. YesBook 753 Plus (800) 936-7629 *Reader Service No. 707*	$4,550	166MHz MMX Pentium/32MB/2.1GB (80MB/3.2GB)	12.1 inches/1,024 by 768	7.7/8.6	Decent battery life.	Overpriced; heavy load; slowest performer.	☆☆ Better deals abound.
Micro X MX Edge (800) 641-5963 *Reader Service No. 708*	$3,899	200MHz MMX Pentium/32MB/3GB (80MB/3GB)	13.3 inches/1,024 by 768	7.8/9.7	Big, beautiful screen; good price.	Shortest battery life; hefty; design lacks *refinement*.	☆☆ You'll like the view but not the weight.

[1]ESTIMATED STREET PRICE. [2]HARD DRIVE AS TESTED (MAXIMUM RAM/HARD DRIVE). [3]ACTIVE MATRIX.
[4]WEIGHT WITHOUT ACCESSORIES/WITH ACCESSORIES.

☆☆☆☆☆ *Excellent* ☆☆☆☆ *Good* ☆☆☆ *Acceptable* ☆☆ *Poor* ☆ *Unacceptable*

Notebooks Under $2,500

Look at you: slumming with a $2,500 notebook. Are you really going to use it when you give presentations to clients? Actually, the question should be, why aren't you using it for your presentations?

Just because it has a low price tag doesn't mean it's skimping in technology. Your low-budget notebook will likely impress the pants off your clients. Two years ago a 133MHz Pentium portable with a 12.1-inch active-matrix display would have cost you well over $5,000. But the times they are a-changin'.

Nouveau Riche In fact, these days a $2,500 price ceiling is mighty high as technology goes. Five of the 19 machines we tested come with 166MHz CPUs. All but four come with 12.1-inch displays. And while 8- and 10-speed CD-ROM drives were the overwhelming drives of choice, the NEC Versa 2730M features a 16-speed drive, a 56Kbps modem, and 2MB of VRAM on its video card.

When you weigh all the factors, however, Micron Electronics' TransPort VLX secured the overall winner spot in our roundup, thanks in large measure to its active-matrix display (the Versa comes with a passive-matrix screen). Not only is the TransPort a productivity workhorse, it's also an impressive presentation platform. And it delivers screaming-fast performance, as well as a shrewd design and fine usability, trademarks of the TransPort family.

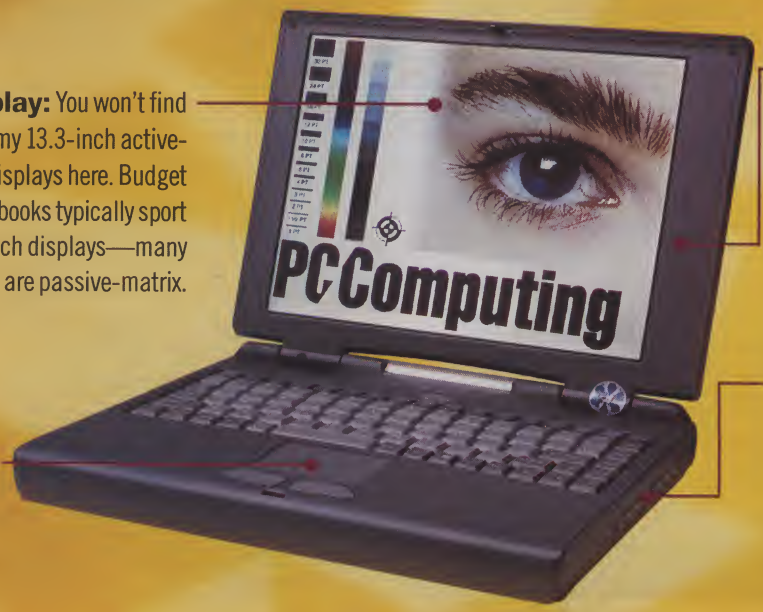
The Versa 2730M was the performance leader, thanks to a speedy hard drive and fast video. The Brick Computer Ergo ThinBrick 166, the Micro Express NP1266, and the Acer America AcerNote Light 383 also performed well above the pack.

Are these results surprising? Given that the Versa and the TransPort come with 133MHz CPUs, we'd say so; the other top-performing competitors come with more powerful 150MHz or 166MHz chips. More surprising is that the Tatung America TNB-5500 and the Micro X MX Entre—both powered by 166MHz CPUs—scored near the bottom.

On Display Raw performance aside, all the notebooks we tested put on impressive shows. The only ones that feature the smaller 11.3-inch screens are the AcerNote, the MX Entre, the Fujitsu LifeBook 531T, and the Kiwi Computer OpenNote 680. Of these, the

Trade-offs?

Sure, these notebooks are priced right. But to get that bargain price, what do you have to give up? And if you think you can make do without some nifty component now, will you miss it later?



Display: You won't find roomy 13.3-inch active-matrix displays here. Budget notebooks typically sport 12.1-inch displays—many of which are passive-matrix.

Weight: With big screens and CD-ROM drives, notebooks are bigger and heavier. Dressed for travel, you'll be lugging upwards of 8 pounds.

Multimedia: Multispeed CD-ROM drives and stereo sound are now standard on entry-level notebooks. But there's still no compensating for cheesy built-in speakers.

CPU: MMX power isn't the norm in every entry-level 133MHz and 166MHz Pentium portable, but you will find it in some units.

SAVE 75%!

Now you can save up to 75% when you subscribe to PC Computing. Plus get a BONUS: the Gaming MegaPac CD-ROM. Packed with arcade classics, cool simulators, fantasy/adventure games, and more, it's YOURS FREE with your paid order.

Choose one:

☐ **SAVE 75% - Get 2 years/24 issues for $29.97**

☐ **SAVE 72% - Get 1 year/12 issues for $16.97**

SUPER SAVINGS SPECIAL!



FREE!



Name (please print) 5SF47

Company

Address

City/State/Zip ☐ Payment enclosed. ☐ Bill me later.

Annual newsstand price $59.88. Non-U.S. add US$16 per year. Canadian GST included.

Check out our Web site —
http://www.pccomputing.com

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST-CLASS MAIL PERMIT NO. 66 BOULDER, CO

POSTAGE WILL BE PAID BY ADDRESSEE

PCComputing®

PO Box 50253
Boulder CO 80323-0253



Priced to Move: The Micron TransPort VLX's beautiful 12.1-inch active-matrix screen is easy on the eyes. Its usability, speed, and price make it all the more attractive.

AcerNote and the MX Entre also use passive-matrix rather than active-matrix technology. These machines are best suited to note taking, e-mail, and light work. You'll want something else for presentations.

The Compaq Computer Armada 1520DM has a total traveling weight of just 8 pounds, bested only by the AcerNote Light, the Kiwi OpenNote, and the IBM ThinkPad 380D. This light weight doesn't mean Compaq outfitted the Armada with an undersize battery, as you might expect. The Armada turned in the third-longest charge life in this roundup. And given its $2,049 price tag—third lowest—it's a great solution for road-weary travelers with tight budgets.

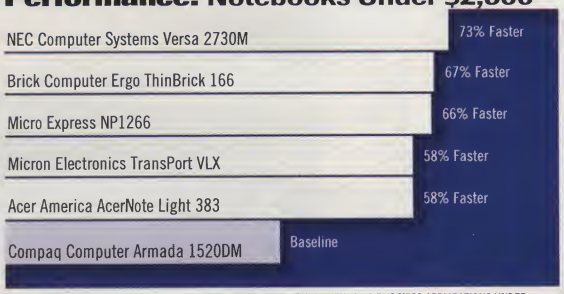
Coast to Coast Results from our battery tests spanned a wide range. The AcerNote was a crowd-pleaser, chugging along nearly 30 percent longer than Sceptre Technologies' Soundx 4200, which came in second. The notebooks from NEC, Micron, IBM, and Digital (the HiNote VP 560) all scored *respectably*—and equally. They were bested only slightly by Kiwi's OpenNote and Toshiba's fine Satellite 220CDS. On the flip side, the Tatung TNB-5500, the Micro Express NP1266, and the Fujitsu LifeBook turned in disappointing results—especially surprising since the machines were among the heaviest in our roundup.

Extra heft isn't always due to an oversized battery. The Kiwi OpenNote is the lightweight champ at 7.6 pounds when dressed for travel—yet performed well in our battery tests. IBM's ThinkPad 380D is almost as light at 7.7 pounds. The Hewlett-Packard HP OmniBook 2000 CS weighed a pound more, and the Micro X MX Entre weighed a shoulder-wrenching 9.9 pounds—with poor battery life to boot.

Of course, weight versus charge life isn't the only measure of good usability. The Micron TransPort VLX drew kudos for its S-Video and USB ports and its easy-to-decipher LCD panel, which shows system status. Compaq's Armada accepts two batteries and scored second overall for usability. The Armada integrates its AC adapter within the machine—a convenient feature—and the floppy drive is removable. But we'd like to see a bigger wrist rest. The NEC Versa's keyboard is a little spongy, but the hard drive is removable and there's a USB port.

In other words, these machines offer the kind of top-drawer technology you'd expect from notebooks that play in the $3,500 to $4,500 ballpark. The TransPort VLX is an exceptionally well-designed box across the board. So is the Versa 2730M if ultimate performance is what you need and you don't want to spend more than $2,500. If performance matters less to you than battery life, comfortable shoulders, and low price, the Compaq Armada offers a solid dollar value.

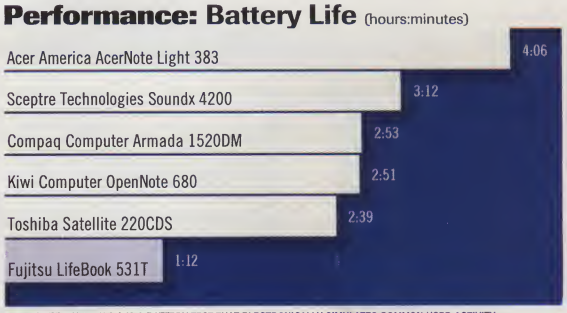
Performance: Notebooks Under $2,500



NOTE: WINSTONE 97 IS A TEST THAT RUNS 14 OF THE MOST POPULAR WINDOWS BUSINESS APPLICATIONS UNDER WINDOWS 95 AND WINDOWS NT.

Eat My Dust: The fastest notebook isn't always the most expensive. Thanks to its speedy hard drive and fast video, NEC's Versa 2730M outpaced the pack.

Performance: Battery Life (hours:minutes)



NOTE: BATTERYMARK 2.0 IS A BATTERY TEST THAT ELECTRONICALLY SIMULATES COMMON USER ACTIVITY.

Keep on Truckin': Acer America's AcerNote Light 383 lasted an unheard of four hours, yet weighs in under 8 pounds with its battery pack.

Top Notebooks Under $2,500

Product	Price[1]	CPU/RAM/ Hard Drive[2]	Display[3] (Size/Max. Res.)	Weight[4] (Lbs.)	Pros	Cons	Verdict
PC Computing BEST **Micron Electronics TransPort VLX** (800) 733-9513 *Reader Service No. 709*	$2,499	133MHz Pentium/ 16MB/1.4GB (40MB/2.1GB)	12.1 inches/ 800 by 600	7.0/ 8.6	Superb performance; gorgeous display; top-drawer usability.	Unspectacular battery life.	★★★★★ The best budget-bound notebook money can buy.
Acer America Corp. AcerNote Light 383 (800) 733-2237 *Reader Service No. 710*	$2,299	150MHz Pentium/ 24MB/2GB (64MB/3GB)	11.3 inches, passive matrix/800 by 600	6.4/ 7.9	Unbeatable battery life; trim weight; good performer.	Small, passive-matrix screen.	★★★★ A productivity workhorse.
Brick Computer Ergo ThinBrick 166 (800) 495-3746 *Reader Service No. 711*	$2,000	166MHz MMX Pentium/ 16MB/2.1GB (72MB/3.2GB)	12.1 inches, passive matrix/800 by 600	7.1/ 8.9	Blistering speed; decent battery life; irresistible price.	Hefty when dressed for travel; passive-matrix display.	★★★★ A barn-burning performer for super-tight budgets.
Compaq Computer Corp. Armada 1520DM (800) 345-1518 *Reader Service No. 712*	$2,049	133MHz Pentium/ 16MB/1GB (80MB/2.1GB)	11.3 inches, passive matrix/800 by 600	7.5/ 8.0	Tantalizing price; death-defying battery; light-weight.	Slowest performer; passive-matrix display.	★★★★ Great battery life and price—but a slow performer.
IBM ThinkPad 380D (800) 426-2968 *Reader Service No. 713*	$2,099	150MHz Pentium/ 16MB/1.4GB (80MB/2.1GB)	12.1 inches, passive matrix/800 by 600	7.1/ 7.7	Trim weight; good battery life; excellent usability.	An active-matrix screen would be nice.	★★★★ An efficient machine that loves to travel.
Kiwi Computer OpenNote 680 (408) 492-9188 *Reader Service No. 714*	$2,299	133MHz Pentium/ 32MB/1.1GB (128MB/6GB)	11.3 inches/ 800 by 600	5.9/ 7.6	Great battery life; lightweight; loves to travel.	Small screen.	★★★★ A slim traveler that works wherever you go.
NEC Computer Systems Versa 2730M (888) 306-4636 *Reader Service No. 715*	$2,399	133MHz MMX Pentium/ 16MB/1.4GB (96MB/2.1GB)	12.1 inches, passive matrix/800 by 600	7.5/ 8.3	Top-flight performance; loaded.	Begs for an active-matrix display.	★★★★ A first-rate portable for tightwads.
Sceptre Technologies Soundx 4200 (800) 788-2878 *Reader Service No. 716*	$2,395	133MHz Pentium/ 16MB/1.3GB (72MB/2GB)	12.1 inches/ 800 by 600	6.7/ 8.3	Stunning battery life; shoulder-friendly weight.	Usability has a few rough edges.	★★★★ Solid dollar value.

[1]ESTIMATED STREET PRICE. [2]HARD DRIVE AS TESTED (MAXIMUM RAM/HARD DRIVE). [3]ACTIVE MATRIX UNLESS NOTED OTHERWISE. [4]WEIGHT WITHOUT ACCESSORIES/WITH ACCESSORIES.

★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

continued on page 269

Notebooks Under $2,500: Usability Close-up



Micron TransPort VLX: Here's a 12.1-inch display tucked into a machine that's lightweight and inexpensive.



Hewlett-Packard HP OmniBook 2000 CS: Lightweight when stripped, but puts on pounds with accessories.



Compaq Armada 1520DM: No bulky brick required thanks to its built-in adapter.

INTRODUCING THE PERFECT NOTEBOOK FOR 1997. AND 1998. AND 1999...



AST® introduces the long-term notebook solution. *It's very simple. The Ascentia™ M Series from AST provides a full range of powerful technologies designed to support shared peripherals. So, now you don't have to worry about which docking station goes with what notebook, because docking stations and peripherals are common throughout the line, including the next generation of Ascentia notebooks. The result is a simplified notebook solution that will make your job easier today and tomorrow. Visit us at www.ast.com for more information about AST Ascentia M notebooks featuring Intel® Pentium® processors with MMX™ technology. Or call us at* 1-800-945-2278.



Ascentia M

- Up to 233 MHz Intel Pentium processor with MMX
- 12.1" DSTN to 13.3" XGA TFT Active Matrix screen
- 32 to 64 MB RAM expandable to 128 MB
- 512 KB L2 cache
- Up to 4.0 GB UltraDMA hard disk drive
- 20X maximum speed CD-ROM
- Universal Serial Bus and CardBus
- Lilon battery
- Three docking solutions
- Includes choice of Microsoft® Windows® 95 or Windows NT® 4.0

MMX™ intel inside pentium® PROCESSOR

AST® COMPUTER

Working for your business.™

© 1997 AST Research, Inc. All rights reserved. AST and the AST Logo are registered trademarks and Working for your business and Ascentia are trademarks of AST Research, Inc. Intel, the Intel Inside Logo, and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation.

Circle 113 on reader service card.

Philips Brilliance® Monitors bring out your best.





BRILLIANCE®
HIGH RESOLUTION MONITORS

Philips Brilliance monitors bring out your best on the PC screen with pixel perfect display plus incredibly high resolution, color, accuracy, contrast and consistency. They're available in 15", 17", and 21" inch sizes. So, whether you're a design professional, office or small business user, or serious game player, we have the right size monitors for you. Look into a Philips Brilliance monitors today.

BU Monitors Website: www: http: / / www. monitors. be. philips. com or fax
Europe:31-40-273-5412 USA:1-770-821-2228 Asia Pacific:852-2-866-7358

PHILIPS

Let's make things better.

Top Notebooks Under $2,500

continued from page 266

Product	Price[1]	CPU/RAM/ Hard Drive[2]	Display[3] (Size/Max. Res.)	Weight[4] (Lbs.)	Pros	Cons	Verdict
Toshiba America Satellite 220CDS (800) 334-3445 *Reader Service No. 717*	$2,184	133MHz Pentium/ 32MB/1.3GB (144MB/3.3GB)	12.1 inches, passive matrix/800 by 600	6.9/ 8.2	Good battery life; excellent usability; shoulder-pleasing size.	Weak performance; needs an active-matrix display.	★★★★ An inexpensive yet capable machine that's got panache.
AMS Tech TravelPro 187CT (800) 886-2671 *Reader Service No. 718*	$2,495	150MHz Pentium/ 64MB/2.1GB (64MB/1.3GB)	12.1 inches/ 800 by 600	6.6/ 8.3	Respectable performance, weight, and battery life.	Somewhat pricey, even with an integrated modem.	★★★ A solid middle-of-the roader.
CTX Int'l EzBook 750MT (800) 888-9052 *Reader Service No. 719*	$2,404	150MHz MMX Pentium/ 16MB/1.1GB (40MB/2GB)	12.1 inches, passive matrix/800 by 600	7.2/ 8.6	Decent performance; good battery life.	Pricey for a passive-matrix display.	★★★ A no-frills, no-nonsense book.
Digital Equipment Corp. HiNote VP 560 (800) 344-4825 *Reader Service No. 720*	$2,099	133MHz Pentium/ 32MB/1.4GB (80MB/2.1GB)	12.1 inches, passive matrix/800 by 600	7.6/ 8.1	Good battery life; nice weight; great price.	Wants an active-matrix display.	★★★ An eminently portable productivity machine.
Fujitsu PC Corp. LifeBook 531T (888) 466-8434 *Reader Service No. 723*	$2,199	133MHz Pentium/ 80MB/1.3GB (80MB/1.3GB)	11.3 inches/ 800 by 600	6.9/ 8.8	Thin profile; good price.	Miserly battery life; small display; hefty when dressed for travel.	★★★ Wait for the sale.
Hewlett-Packard HP OmniBook 2000 CS (800) 322-4772	$2,318	133MHz Pentium/ 16MB/1.4GB (128MB/2GB)	12.1 inches, passive matrix/800 by 600	6.9/ 8.7	Big L2 cache; good ergonomics.	Disappointing performance; expensive for a passive-matrix.	★★★ An expensive but civilized notebook.
Micro Express NP1266 (800) 989-9900 *Reader Service No. 721*	$2,249	166MHz Pentium/ 24MB/1.3GB (40MB/2.6GB)	12.1 inches/ 800 by 600	7.9/ 9.1	Excellent performance.	Wrenching weight; fleeting battery life.	★★★ A fiery portable for short hops.
WinBook Corp. WinBook XP5 Pro (800) 965-5758 *Reader Service No. 722*	$2,399	150MHz Pentium/ 24MB/1.4GB (40MB/1.4GB)	12.1 inches, passive matrix/1,024 by 768	6.7/ 8.4	Good performance and battery life.	Pricey for a passive-matrix display.	★★★ A fine machine that begs for an active-matrix display.
Micro X MX Entre (800) 641-5963 *Reader Service No. 724*	$1,840	166MHz Pentium/ 16MB/2.4GB (40MB/3GB)	11.3 inches, passive matrix/800 by 600	7.5/ 9.9	Wallet-pleasing price.	Poor performance and battery life; hefty; passive-matrix display.	★★ Not enough performance, even at this price.
Tatung America TNB-5500 (800) 829-2850 *Reader Service No. 725*	$2,495	166MHz MMX Pentium/ 16MB/1.4GB (48MB/2GB)	12.1 inches/ 800 by 600	8.1/ 8.8	Big, beautiful screen.	Ephemeral battery life; weak performance; crushing heft.	★★ A full-featured candidate for Weight Watchers.
Tiger Direct Tiger GT 6x86-166 (800) 830-0056 *Reader Service No. 726*	$2,499	PR166 Cyrix/ 32MB/1.6GB (80MB/2GB)	12.1 inches/ 800 by 600	7.6/ 8.4	Large, radiant display.	Middling performance; brief battery life.	★★ Not the best bargain going.

[1]ESTIMATED STREET PRICE. [2]HARD DRIVE AS TESTED (MAXIMUM RAM/HARD DRIVE). [3]ACTIVE MATRIX UNLESS NOTED OTHERWISE. [4]WEIGHT WITHOUT ACCESSORIES/WITH ACCESSORIES.

★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

We're Going To Change The Way You Look At Desktops. (From The Inside Out.)

The newest Compaq® Deskpro® PC models are proof positive that looks can be deceiving. Sure, they come with the Compaq quality, reliability — and desktop design — we're known for. But just look at how much new technology we've managed to fit inside.

Looking for a powerful Pentium® processor with MMX™ technology? Check out our new Deskpro 2000 and 4000 models. Exciting new graphics? You've got it — from the new S3 Trio 64V2/GX Enhanced 64-bit graphics in the Deskpro 2000 to the phenomenal Matrox Millennium graphics of the Deskpro 6000. Plus bigger hard drives. SDRAM memory, standard. And up to 16X CD-ROMs — with audio — on selected models. It's all inside.

Whichever Deskpro you choose, you'll find it has several additional features that set it apart as a Compaq: Innovation. Affordability. Advanced technology. Ease of use. Plus Intelligent Manageability, standard. So take a closer look at the new Compaq Deskpro today. You'll find there are a lot of exciting new things happening inside that familiar exterior.



Deskpro 2000

Deskpro 4000

Deskpro 6000

DESKPRO	Model 2000	Model 4000	Model 6000
Processor	166MHz Pentium with MMX	200MHz Pentium with MMX	266MHz Pentium II
Standard Memory	16MB DRAM	32MB DRAM	32MB EDO RAM
Hard Drive	2.1GB	3.2GB Ultra ATA	4.2GB SCSI
Standard Cache/Max.	256KB / 512KB	512KB / 512KB	512KB / 512KB
Video Graphics	S3 Trio 64 V2/GX	S3 ViRGE/GX	Matrox MGA Millennium
Video Memory/Max.	1MB / 2MB SGRAM	2MB / 4MB SGRAM	2MB / 8MB WRAM
Diskette Drive	3.5" 1.44MB	3.5" 1.44MB	3.5" 1.44MB
Expansion Slots/Drive Bays	5/5 Desktop	5/4 Desktop	5/4 Desktop
Ports: Serial/Parallel/USB	2/1 ECP/2	2/1 ECP/2	2/1 ECP/0
Intelligent Manageability	Yes	Yes	Yes
CD-ROM	Optional	Optional	8X with Sound
Software Pre-installed	Windows 95	Windows 95	Windows NT for Workstation
Limited Warranty*	3-Year	3-Year	3-Year
Price† *Other Models Available*	**$1,239**	**$1,759**	**$3,179**

COMPAQ

1-800-345-1518
Or Visit Us At www.compaq.com For More Information Or For A Reseller Near You

intel inside
pentium® PROCESSOR

Monitors and certain options are covered by a One-Year Limited Warranty. *Compaq Deskpros are covered by a Three-Year Limited Warranty. Restrictions and exclusions apply. †All prices shown are estimated street prices, and do not include monitors. Reseller prices may vary. Offer available in the U.S. only. © 1997 Compaq Computer Corporation. All rights reserved. Compaq and the Compaq Logo registered U.S. Patent and Trademark Office. Products, prices and programs are subject to change without notice. Windows and Windows NT are registered trademarks of Microsoft Corporation. Deskpro is a registered trademark. The Intel Inside Logo, Pentium, and MMX technology are registered trademarks and the Pentium Processor Logo is a trademark of Intel Corporation. Other products are trademarks of their respective companies.

Ultralight Portables

Not to worry: The throbbing in your neck and shoulders isn't the grim reaper reminding you that you're not getting any younger. Truth is, some notebooks have been getting heavier. In the past three years, portables have bloated like a baby boomer's waistline. Some manufacturers now sell machines that weigh 10 pounds or more when dressed for travel. Nervy, no? Painful? Definitely.

We suppose you could buy a wheelbarrow to haul such beasts down airport concourses. A better idea might be to forgo the conventional portable altogether and buy a sub–5-pound ultraskinny notebook instead. You'd be surprised how little you have to give up in terms of power and features. Full-size keyboard? Of course. Multimedia? No problem. A big active-matrix display? Get nothing less.

Five Under Five You can count the number of first-rate subnotebooks on one hand. The machines we tested were standouts not only for their portability, but also for their technological prowess. And none more so than the 166MHz MMX-powered IBM ThinkPad 560E. It's a seductive machine, thinner than you'd believe technology would allow. The ThinkPad line has built its reputation on usability, and the 560E lives up to its heritage. This unit offers a whole lot of power in a tiny package. The machine weighs only slightly more than 4 pounds when stripped to its essentials. Its AC adapter is no bigger than your beeper. Its keyboard and controls are first-rate.

However, you'll want to leave the optional CD-ROM drive at home; when it's in tow, the machine's total traveling weight jumps to more than 7 pounds. Performance and battery life are admirable, though the Panasonic Personal Computer CF-35 beat out the ThinkPad in both tests.

The ThinkPad, the Panasonic CF-35, and the Fujitsu LifeBook 635T all come outfitted with a big, beautiful 12.1-inch active-matrix display; so much for stereotypes about pint-size screens on subnotebooks. Backlighting is bright and consistent across the panel.

Despite the Panasonic's big display and light weight, its battery charge life was nearly twice as long as the ThinkPad's and the LifeBook's, its closest competitors. It lasted nearly three times as long as the Toshiba

Trade-offs?

When you're on the road, you need to be light on your feet—not weighed down by a heavy machine. So will you have to leave something behind to work effectively?



Display: The good news? Your subnotebook has a sharp, active-matrix display. Now the bad? Some screens max out at 10.4 inches.

Keyboard: Finally—subnotebooks with full-size keyboards. Now let's work on the pointing devices. Several include hard-to-control touchpads.

Multimedia: A few subnotebooks integrate CD-ROM drives, though most still use external CD-ROM drives or come with portable docking stations.

CPU: While the best subnotebooks are powered by 166MHz MMX Pentium chips, slower 133MHz and 150MHz CPUs are still standard.



Rich and Thin: At a mite over 4 pounds, IBM's ThinkPad 560E is packed with travel-friendly features like a 12.1-inch screen and a keyboard you'll actually enjoy typing on.

Portégé 300CT and the Hewlett-Packard HP OmniBook 800 CT. In other words, it's got credentials as a productivity road warrior and a presentation platform. None of the other machines top it in both arenas. The most surprising thing about the Panasonic CF-35 is that it uses the same rugged magnesium alloy case that makes Panasonic's full-size multimedia portables durable but heavy. Yet the CF-35 weighs only 4.7 pounds—a travel-friendly weight.

The Panasonic is also the only subnotebook in this roundup to integrate its ten-speed CD-ROM drive in a swappable drive bay. The ThinkPad and the OmniBook use external CD-ROM drives. And the Portégé and the LifeBook integrate their CDs in portable docking stations. Infuriatingly, the Panasonic's drive costs extra and it swaps only with a floppy—not a second battery. But given the machine's long charge life, this won't be a nuisance.

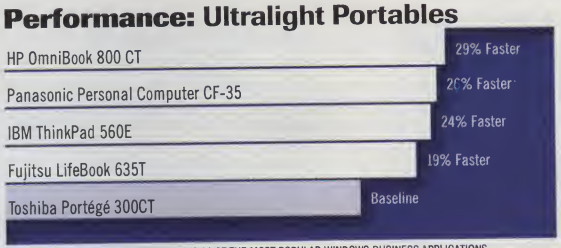
Road Rocker When it comes to keyboards, you can't beat the crisp response of the ThinkPad's or the Portégé's pointing stick, which you can actually control. The Fujitsu LifeBook and the Panasonic CF-35 use a touchpad pointer, which is crude and clumsy for certain operations; even the OmniBook's much derided mouse-on-a-stick offers more control over drag-and-drop operations (albeit only for right-handed users).

Of course if portability is key, nothing beats the Portégé or the OmniBook. Both machines weigh less than 4 pounds when stripped of their accessories. Both tuck pleasingly into a briefcase, leaving plenty of room for papers, handouts, and galoshes. But their 10.4-inch screens are downright disappointing when compared with the other three subnotebooks. And their battery lives are also fleeting in comparison.

The Fujitsu LifeBook's portable dock is laudable—a wafer-thin slice that attaches to the bottom of the unit. But once it's attached, the machine's total weight jumps to more than 9 pounds. And the notebook's performance is admirable for a 133MHz Pentium though, as expected, it lagged behind the 150MHz and 166MHz MMX machines in our tests. Even so, its $2,499 price tag makes it roughly $2,000 cheaper than the Panasonic CF-35 and the IBM ThinkPad 560E. And compared with the Toshiba Portégé, the next-cheapest notebook, the LifeBook's got a bigger screen, better performance, and longer-lasting batteries.

Per-pound costs are no way to judge a subnotebook, of course. If portability is a factor, all five machines in this roundup are worth your gander. Given the good usability and superlight weight of the Hewlett-Packard OmniBook and the Toshiba Portégé, you might not mind their smallish 10.4-inch screens and short-lived battery life. If you can travel without a CD-ROM drive, the Fujitsu LifeBook makes an excellent working tool for life on the road. And the Panasonic CF-35 is an excellent presentation and productivity machine. But if you're looking for the best of all worlds, the IBM ThinkPad 560E is the tool of choice.

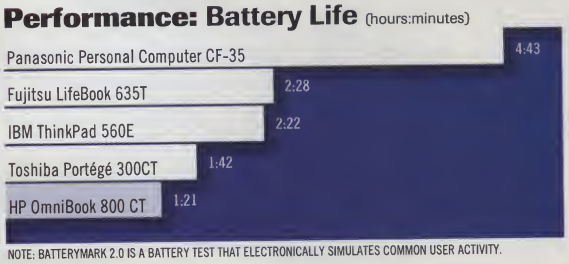
Performance: Ultralight Portables



NOTE: WINSTONE 97 IS A TEST THAT RUNS 14 OF THE MOST POPULAR WINDOWS BUSINESS APPLICATIONS UNDER WINDOWS 95 AND WINDOWS NT.

Light Speed: A 166MHz MMX CPU and a huge 512K L2 cache give Hewlett-Packard's OmniBook 800 CT the edge over its other lightweight peers.

Performance: Battery Life (hours:minutes)



NOTE: BATTERYMARK 2.0 IS A BATTERY TEST THAT ELECTRONICALLY SIMULATES COMMON USER ACTIVITY.

Small But Mighty: The Panasonic CF-35 squeezes in tons of features without skimping on battery size. And its charge life is twice as long as its closest rival.

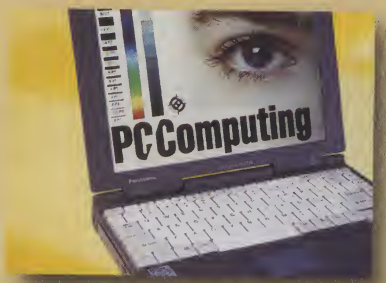
Top Notebooks Under 5 Pounds

Product	Price[1]	CPU/RAM/ Hard Drive[2]	Display[3] (Size/Max. Res.)	Weight[4] (Lbs.)	Pros	Cons	Verdict
PC Computing BEST **IBM ThinkPad 560E** (800) 426-2968 *Reader Service No. 727*	$4,399	166MHz MMX Pentium/ 16MB/2.1GB (80MB/2.1GB)	12.1 inches/ 800 by 600	4.1/ 7.4	Big, beautiful screen; top-drawer usability; solid battery life and commendable performance.	No internal CD-ROM drive; pricey.	★★★★★ A machine that seduces your eyes, fingers, and road-weary shoulders.
Fujitsu PC Corp. LifeBook 635T (888) 466-8434 *Reader Service No. 728*	$2,499	133MHz Pentium/ 32MB/1.3GB (80MB/1.3GB)	12.1 inches/ 800 by 600	4.3/ 9.2	Big view; solid battery life; great price.	No internal CD-ROM drive; multimedia turns featherweight into heavy-weight; sluggish performance.	★★★★ An all-purpose road warrior for a bargain.
Panasonic Personal Computer CF-35 (800) 662-3537 *Reader Service No. 729*	$4,599	150MHz MMX Pentium/ 16MB/2.1GB (80MB/2.2GB)	12.1 inches/ 800 by 600	4.7/ 6.2	Big screen; excellent performance; unbeatable battery life; durable; integrated, hot-swappable CD-ROM drive.	Usability has some rough edges; pricey; CD-ROM drive costs extra.	★★★★ A subnotebook that's both a presentation platform and a productivity workhorse.
Toshiba America Portégé 300CT (800) 334-3445 *Reader Service No. 730*	$3,499	133MHz MMX Pentium/ 32MB/1.5GB (64MB/1.5GB)	10.4 inches/ 1,280 by 1,024	3.7/ 5.5	Ultralightweight; excellent usability; good price.	No internal CD-ROM; slow performance; brief battery life; small screen.	★★★★ A fine sidekick for light work on the road.
Hewlett-Packard HP OmniBook 800 CT (800) 322-4772	$3,690	166MHz MMX Pentium/ 16MB/2GB (80MB/2.1GB)	10.4 inches/ 800 by 600	3.9/ 7.1	Oh-so-feathery; good usability; top-flight performance; nice price.	No internal CD-ROM; small screen; shortest battery life.	★★★ An unobtrusive e-mail fetcher and note taker.

[1]ESTIMATED STREET PRICE. [2]HARD DRIVE AS TESTED (MAXIMUM RAM/HARD DRIVE). [3]ACTIVE MATRIX. [4]WEIGHT WITHOUT ACCESSORIES/WITH ACCESSORIES.

★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

Ultralight Portables: Usability Close-up



Panasonic CF-35: Wow! A large display and a CD-ROM drive you can swap out for a floppy.



IBM ThinkPad 560E: Conveniently spaced keys, comfortable wrist rest, plus an easy-to-use pointing device.



Toshiba Portégé 300CT: At 3.7 pounds, it weighs less than any full-featured portable you'll find.

* Reply to 15 urgent e-mails on the redeye (without using the overhead light).
* Type follow-up letter at LAX (on a real keyboard).*
* Record a reminder in my own voice.
* Plug into client's printer. Run off 10 copies.
* Check out competitor's Web site from the hotel. View full-width pages of their wares.
* Finalize budget spreadsheet over lunch.
* Transfer it into Microsoft Excel on my Windows 95 PC. And Liza's Windows 3.1 PC. And Zach's Macintosh system.
* Never forget a meeting, a name, a to-do. (And stay in sync with my office PC.)
* Complete 3-week trip with just 4 AA batteries. (Try that with any other handheld computer!)
* Give my shoulder a rest (the MessagePad 2000 weighs only 1.4 pounds).

MessagePad 2000

LEAVE YOUR LAPTOP AT HOME.

Newton, Inc.™

FOR MORE INFORMATION OR A DEALER NEAR YOU, CALL OR VISIT:

1-800-315-7647, ext. 16

www.newton-inc.com/my-mp

*KEYBOARD OPTIONAL IN SOME CONFIGURATIONS. MODEM AND ISP REQUIRED FOR INTERNET ACCESS.

COPYRIGHT © 1997 NEWTON, INC. ALL RIGHTS RESERVED. NEWTON, NEWTON TECHNOLOGY, NEWTON WORKS, THE NEWTON, INC. LOGO, THE NEWTON TECHNOLOGY LOGO, THE LIGHT BULB LOGO, AND MESSAGEPAD ARE TRADEMARKS OF NEWTON, INC. AND MAY BE REGISTERED IN THE USA AND OTHER COUNTRIES. ALL OTHER TRADEMARKS ARE THE INTELLECTUAL PROPERTY OF THEIR RESPECTIVE OWNERS.



MessagePad 2000

Available at Computer Discount Warehouse, ComputerWare, Elek-Tek, J&R Computer World, MacMall, Mobile Planet, Personal Support



A Projector So Light You Can Take It Anywhere.

ESPECIALLY NOW THAT YOU CAN AFFORD TO.



First we made a notebook projector light and portable enough to take on the run. Then we made it considerably less expensive than any comparable SVGA projector on the market.



And just like our entire family of projectors, it's incredibly easy to use.

NEW BREAKTHROUGH PRICE

SVGA/VP800

$2,995

through **12/31/97**

Just plug it into your notebook, turn it on, and you're ready to make a big presentation. You'll not only get all the power and brightness you need, but at a mere 9.3 pounds, you'll have the flexibility to take it anywhere you want. Because there's no bad place to present a good idea.



LIGHTWARE

For a free demo, call 1-800-445-9396 or visit our website at www.lightware.com

Valid for VP800 only. Price subject to change without notice, in U.S. dollars and valid only in the U.S. Available at participating dealers.

★★★★½ Presentation Magazine

MacUser ★★★★

1996 Finalist MVP PCComputing

PC Magazine Editors' Choice

Circle 217 on reader service card.

Small Wonders

Consider that 8-pound albatross hanging on your shoulder to be karmic retribution for using bug spray on your zucchini garden last year. What else could explain the agony of toting a full-size notebook on business trips when all you need is e-mail and a calendar? Karma or no, maybe it's time to dump the notebook for a handheld PC.

Wailing Windows CE The best of the breed have finally made inroads against the three problems that have kept them as electronic curios rather than business tools: slow and arduous data entry, hard-to-read screens, and incompatibility with desktop PC operating systems. You wouldn't call any handheld computer a breakthrough device, but depending on your needs they may offer a welcome convenience.

Windows CE machines—which are 100 percent compatible with Windows 95 because they're based on the same operating system—are grabbing most of the headlines. But their sales haven't exactly set the world ablaze. Casio, Compaq, Hewlett-Packard, NEC, and Philips now have Windows CE offerings. All cost in the $400 to $600 ballpark. One of our favorites is the $599 Philips Velo 1. Like most CE machines it has a QWERTY keyboard, a touch-screen LCD panel (with 480 by 240 resolution), a stylus as a pointing device, a serial connector, and an infrared port. The only thing it lacks is a Type II PC Card slot, although it does pack a 19.2Kbps modem.



Windows CE King: The Philips Velo 1 offers great performance, a backlit screen, and a 19.2Kbps modem. But it lacks a PC Card slot.

Velo 1 / Philips Electronics / $599 est. street price / (888) 367-8356 / *Reader Service No. 731*

All these CE devices include an integrated version of Microsoft Schedule+ and pocket editions of Word and Excel—though both lack various formatting features. Most CE machines also offer cradles that attach to your PC via the serial port. Windows Explorer recognizes the CE device as yet another drive, so synchronizing files between handheld and desktop PCs is a manual but mercifully quick affair.

Pocket Power Microsoft is no gorilla where handheld PCs are concerned, however, 3Com's pen-based PalmPilot Professional has captured more than half the market, thanks to its elegantly simple design. Only slightly larger than a deck of cards, it makes no pretensions about handwriting recognition. Instead you have to master Graffiti, the PalmPilot's proprietary script. This is the only learning curve you'll encounter.

Apps—including a to-do list, a notepad, a calendar, a calculator, and a phone number and address book—are front and center; just tap on their icons. And file synchronization is the best you'll find anywhere. Simply drop the device in its cradle, which attaches to your PC via a serial connection, and everything is handled automatically.



Do It All: The PalmPilot features a backlit screen, expense software, e-mail, and an updated PIM.

PalmPilot Professional / 3Com / $379 est. street price / (800) 881-7256 / *Reader Service No. 732*

Whither Wizard? The PalmPilot isn't the only handheld with a proprietary operating system. Sharp's well-entrenched Zaurus ZR-3500X uses a QWERTY keyboard and provides several features not widely available in comparably priced Windows CE devices. The Zaurus comes with Microsoft Word- and Excel-compatible applications, expense software, a PIM, and Rupp Software's Z-Em@il, which supports Internet e-mail with file attachments.

Likewise, Psion's new Series 3c puts its applications up front, though there's no touch screen. It integrates note-taking, address, and calendar applications, as well as the Psion programming language and a voice recorder that lets you use your own sounds in place of various alarms. There's also a crafty phone dialer that works by holding the device's speaker up to the phone. Optional PsiWin software (with cable) provides file synchronization with Windows PCs and file conversion to and from Windows formats. Best of all, none of these handheld PCs weigh more than 2 pounds, so maybe it's time for you to lighten up.



In Sync: Sharp's Zaurus includes import/export and synchronization tools for most Windows 95 apps.

Zaurus ZR-3500X / Sharp / $399 est. street price / (800) 237-4277 / *Reader Service No. 733*

Life on the Road

Today's portables have grown astoundingly diverse. You can buy a machine that weighs more than 8 pounds—or one that weighs roughly half as much, yet still provides a Pentium CPU and a big 12.1-inch active-matrix display. You can spend over $5,000 on a notebook—or less than $2,500. You can find systems that sport high-speed CD-ROM drives, hardware-based MPEG support, 200MHz MMX CPUs, and 4GB hard drives. Or you can keep things simple. This diversity reflects the realities of business.

As desktop replacement PCs go, power and expandability should guide your purchase decisions. The NEC Versa 6060's performance is excellent, as are its multimedia prowess and the ability to swap out a CD-ROM drive, a floppy drive, a second battery, or a hard drive in its expansion bay. And there are the PC Card slots and a USB port if you need more expansion. The Micron TransPort XKE also provides stunning performance, multimedia sophistication, and usability refinements.

Of course you don't have to spend upwards of $5,000 on a notebook—especially if it's just a traveling companion. Many top-drawer amenities are featured in machines costing $2,500 or less. Consider the Micron TransPort VLX: a 133MHz Pentium CPU, a 12.1-inch active-matrix display, and a 1.4GB hard drive. Yet it costs less than an Armani suit. Compaq's Armada 1520DM is also an excellent buy, thanks to its long-lasting batteries, fine usability, and light traveling weight.

And if portability is key, take a long look at today's superskinnies. The Panasonic CF-35 squeezes a 12.1-inch screen into a sub–5-pound form factor, delivering superb performance and jaw-dropping battery life. The IBM ThinkPad 560E is one of the most graceful and amazing works of technology we've ever seen. And don't forget Toshiba's new Portégé 300CT, which weighs an unbelievable 3.7 pounds without accessories, yet packs top-flight technology. All three machines are standouts.

Lab testing performed by HAL HABERMAN *and* IBRAHIM GUL.

DECISION MAKER

CHOOSE THE BEST **NOTEBOOK** FOR YOUR NEEDS

1 Choose the category that's most important.	2 Choose the most important factor.	3 What else is important?	4 For your needs, the best product to buy is . . .
Desktop Replacements	Performance	Price	Micron Electronics TransPort XKE
		Expansion	NEC Computer Systems Versa 6060
	Usability	Price	Micron Electronics TransPort XKE
		Expansion	NEC Computer Systems Versa 6060
Notebooks Under $2,500	Performance	Price	NEC Computer Systems Versa 2730M
		Expansion	NEC Computer Systems Versa 2730M
	Usability	Price	Compaq Armada 1520DM
		Expansion	Micron Electronics TransPort VLX
Subnotebooks Under 5 pounds	Performance	Price	Hewlett-Packard HP OmniBook 800 CT
		Expansion	Panasonic Personal Computer CF-35
	Usability	Price	Fujitsu PC LifeBook 635T
		Expansion	IBM ThinkPad 560E

BETTER THAN ZIP.™

Considering a Zip? Did you know that the Shark 250 will "eat a Zip drive for breakfast"* in every category? It's faster, holds more data, is 1/3 the size and weight of a Zip and requires only one cable connection and no outside power source. On top of all that, the Shark 250 is only $199†.



Windows Stellar JUNE 1997

PC Computing

FASTER

Four times faster than the Zip,** the Shark 250 can back up all your files, run all your applications, including full-motion video and audio, without a hitch.

HOLDS MORE STUFF

The last time we checked, 250MB of data was 250% more than 100MB of data. Wow! That's a lot of stuff.

SMALLER

The entire Shark 250 drive is small enough to fit in your pocket, weighs just 11ounces (that includes everything you need), and uses removable 250MB HARDiskettes that are just a little bigger than a matchbook. Notebook users rejoice!

Get your very own Shark 250 at CompUSA, Fry's, Computer City, Egghead, Sam's Club, PC MALL, Future Shop, or MicroWAREHOUSE.
For more information, call 888-Go-Avatar (888-462-8282) ext 420, or visit us at **www.goavatar.com**

AVATAR PERIPHERALS, INC

©1997 Avatar Peripherals, Inc.® Shark 250 and HARDiskette are trademarks of Avatar Peripherals, Inc. All other names and trademarks are the property of their respective owners. *Windows Sources, June 1997. **PC Magazine Labs review, May 1997. †After $50 mail-in rebate.

Circle 285 on reader service card.

4X FASTER

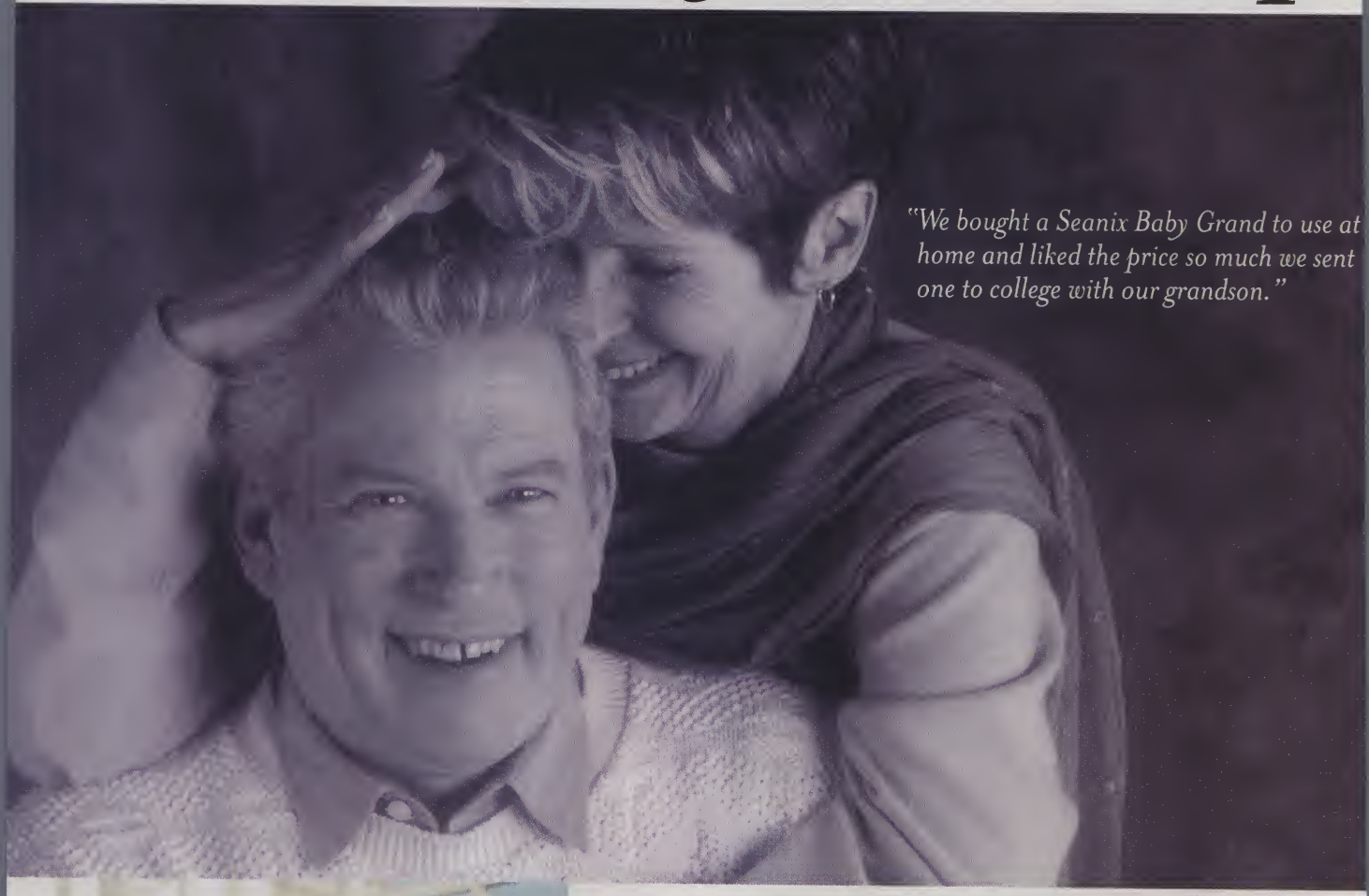
2.5X CAPACITY

250 MB/HARDiskette

1/3 THE SIZE

Shark 250 MOBILE HARD DRIVE

Our quality relationship



Industry's Leading Warranty

5-year limited parts & labor warranty on motherboard, CPU, memory & video card

3-year limited parts & labor warranty on monitor & all other components



The price got their attention, but what impressed the McCloud's was the Seanix desire to build a quality relationship for a lifetime of computing.

What's behind a quality Seanix relationship?

Reliability... At Seanix we custom build systems under the highest quality control standards. All of our PCs are 100% tested through every stage of the manufacturing process. These extreme measures have earned our factories the world class distinction of being ISO 9001 and 9002 certified. In other words, our systems are built to last.

Adaptability... We design, engineer and manufacture our own superior quality motherboards and video cards. This gives us the edge when it comes to incorporating and adapting new technology into our systems. Like our new Pentium® II processor based system with perfomance and productivity enhancing features including AGP, SDRAM, UltraDMA and OnNow support.

5-Year Warranty... We are so convinced our quality will meet your expectations that we back every system with a 5-year limited warranty, which is the best in the industry.

Value... When you add up all the state-of-the-art technology, performance and adaptability Seanix has to offer, then consider the unbeatable pricing, Seanix systems are an incredible value.

So, if you're interested in a quality relationship with a computer company that is setting new standards of excellence, call Seanix today. Our systems will exceed your expectations, at an unbeatable price.

SEANIX

Fax 712-233-3278 • Canada 888-973-2649
Int'l 1-712-255-3733

888•252•1195

GSA Number GS-35F-4766G

started with a dynamite price.

BABY GRANDS* COMPLETE CONSUMER & BUSINESS SOLUTIONS

including monitor **only $999**

Seanix Baby Grand • CS
Intel 166MHz Pentium® Processor with MMX™ Technology
512KB Internal Cache
16MB EDO Memory
WD 1.6GB Hard Drive
2MB EDO, 64-Bit PCI Video
14" Seanix Monitor, .28mm (12.9" v.i.s.)
16X/12X CD ROM Drive
33.6K Fax/Modem, Speaker Phone, Voice Mail or 3COM® Ethernet Card
16-Bit Sound Card
Altec™ Lansing Speakers

$999 PER MO. $35.00

Seanix Baby Grand • TCO
Intel 166MHz Pentium Processor with MMX Technology
512KB Internal Cache
16MB EDO Memory
WD 1.6GB Hard Drive
2MB EDO, 64-Bit PCI Video
15" Seanix Monitor, .28mm (13.8" v.i.s.)
10/100 Ethernet Card
Intel LANDesk® Client Manager 3.0
DMI 2.0 Compliant

$999 PER MO. $35.00

MMX™ intel inside pentium® II processor

CONSUMER SERIES*

CS Price 166
Intel 166MHz Pentium Processor with MMX Technology
512KB Internal Cache
32MB EDO Memory
WD 3.0GB Hard Drive
S-3 Virge, 2MB EDO 3D, 64-Bit PCI Video
15" Seanix Monitor, .28mm (13.8" v.i.s.)
16X/12X CD ROM Drive
33.6K Fax/Modem, Speaker Phone, Voice Mail
16-Bit Sound & Microphone
Altec Lansing Speakers
Microsoft Home Essentials®

$1349 PER MO. $48.00

CS Price 200 $1499 PER MO. $53.00
CS Price 233 $1649 PER MO. $58.00

CS Value 166
Intel 166MHz Pentium Processor with MMX Technology
512KB Internal Cache
64MB SDRAM
WD 4.0GB Hard Drive
Matrox Mystique 4MB SGRAM, 3D
17" Seanix Monitor, .28mm (15.8" v.i.s.)
24X/12X CD ROM Drive
56K Fax/Modem, Speaker Phone, Voice Mail
Ensoniq® AudioPCI™ Wavetable & Microphone
Altec Lansing Speakers
Microsoft Home Essentials

$1849 PER MO. $65.00

CS Value 200 $1999 PER MO. $70.00
CS Value 233 $2149 PER MO. $76.00

CS Power2 233
Intel 233MHz Pentium II Processor
512KB Internal Cache
64MB SDRAM
WD 6.0GB Ultra DMA Hard Drive
Matrox Millenium II 4MB WRAM
17" Seanix Monitor, .28mm (15.8" v.i.s.)
24X/12X CD ROM Drive
56K Fax/Modem, Speaker Phone, Voice Mail
Ensoniq AudioPCI Wavetable & Microphone
Altec Lansing ACS 400 + 250 Subwoofer
Microsoft Home Essentials

$2799 PER MO. $98.00

CS Power2 266 $2899 PER MO. $102.00
CS Power2 300 $3199 PER MO. $112.00

CS Price2 233
Intel 233MHz Pentium® II Processor
512KB Internal Cache
32MB EDO Memory
WD 3.0GB Hard Drive
S-3 Virge, 2MB EDO 3D, 64-Bit PCI Video
15" Seanix Monitor, .28mm (13.8" v.i.s.)
16X/12X CD ROM Drive
33.6K Fax/Modem, Speaker Phone, Voice Mail
16-Bit Sound & Microphone
Altec Lansing Speakers
Microsoft Home Essentials

$1949 PER MO. $69.00

CS Price2 266 $2099 PER MO. $74.00
CS Price2 300 $2399 PER MO. $84.00

CS Value2 233
Intel 233MHz Pentium II Processor
512KB Internal Cache
64MB EDO Memory
WD 4.0GB Hard Drive
Matrox Mystique 4MB SGRAM, 3D
17" Seanix Monitor, .28mm (15.8" v.i.s.)
24X/12X CD ROM Drive
56K Fax/Modem, Speaker Phone, Voice Mail
Ensoniq AudioPCI Wavetable & Microphone
Altec Lansing Speakers
Microsoft Home Essentials

$2499 PER MO. $88.00

Hot! **CS Value2 266** $2599 PER MO. $91.00
CS Value2 300 $2899 PER MO. $102.00

CS DVD2 233
Intel 233MHz Pentium II Processor
512KB Internal Cache
64MB SDRAM Memory
WD 6.0GB Ultra DMA Hard Drive
Matrox Millenium II 4MB WRAM
17" Seanix Monitor, .28mm (15.8" v.i.s.)
Toshiba DVD ROM
56K Fax/Modem, Speaker Phone, Voice Mail
Ensoniq AudioPCI Wavetable & Microphone
Altec Lansing ACS 400 + 250 Subwoofer
DVD Title Pack
Microsoft Home Essentials

$3149 PER MO. $111.00

Hot! **CS DVD2 266** $3249 PER MO. $114.00
CS DVD2 300 $3549 PER MO. $125.00

BUSINESS SERIES*

TCOe 166
Intel 166MHz Pentium Processor with MMX Technology
512KB Internal Cache
32MB SDRAM Memory
WD 3.0GB Hard Drive
S-3 Virge, 2MB EDO 3D, 64-Bit PCI Video
17" Seanix Monitor, .28mm (15.8" v.i.s.)
16X/12X CD ROM Drive
3COM Ethernet Card
Lotus® SmartSuite® or Corel® WordPerect 7 Suite
Intel LANDesk Client Manager 3.0
DMI 2.0 Compliant

$1599 PER MO. $56.00

TCOe 200 $1749 PER MO. $62.00
TCOe 233 $1899 PER MO. $67.00

TCO2 233
Intel 233MHz Pentium II Processor
512KB Internal Cache
32MB EDO Memory
WD 3.0GB Hard Drive
S-3 Virge, 2MB EDO 3D, 64-Bit PCI Video
17" Seanix Monitor, .28mm (15.8" v.i.s.)
16X/12X CD ROM Drive
3COM Ethernet Card
Lotus SmartSuite or Corel WordPerfect 7 Suite
Intel LANDesk Client Manager 3.0
DMI 2.0 Compliant

$2249 PER MO. $79.00

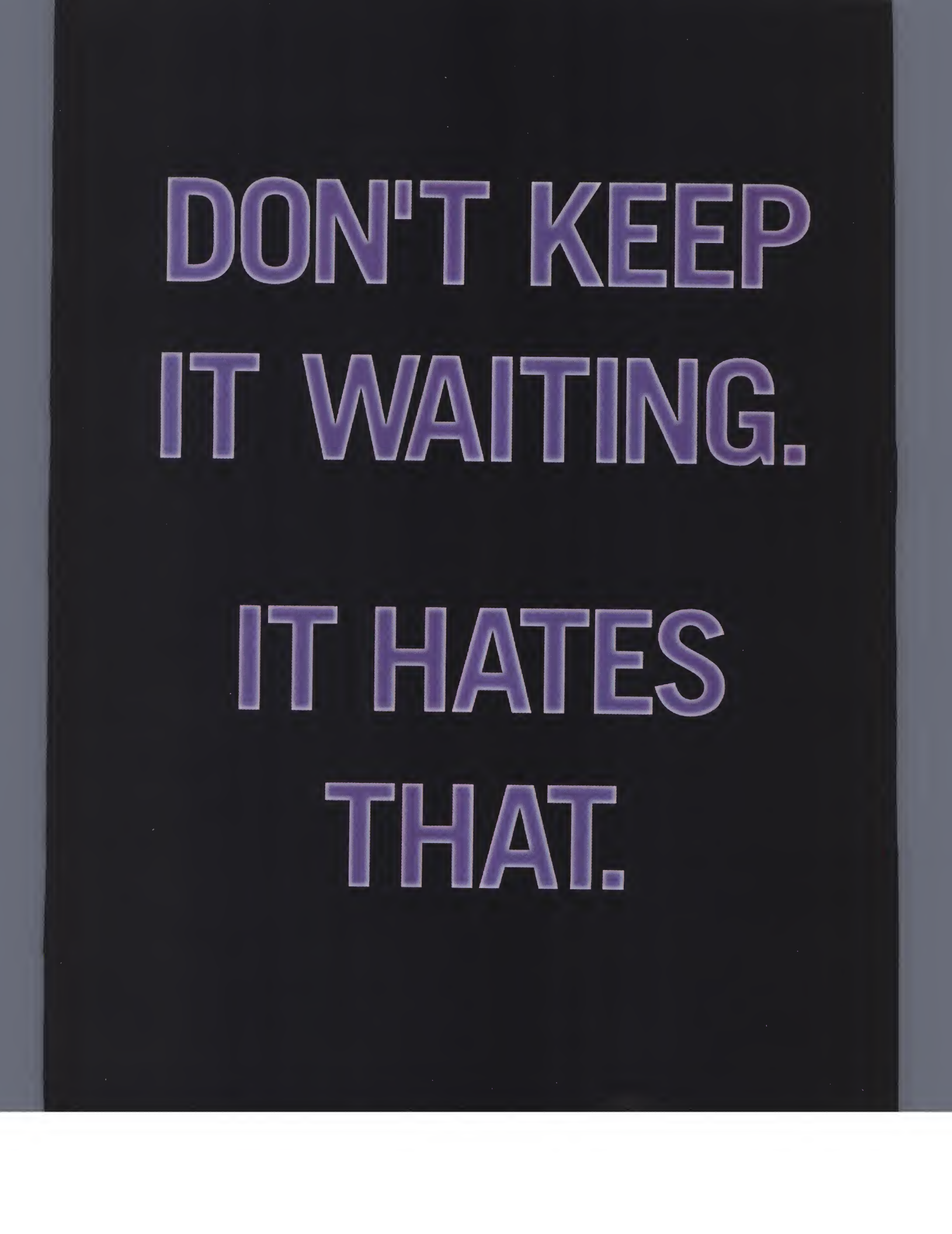
TCO2 266 $2499 PER MO. $88.00
TCO2 300 $2699 PER MO. $95.00

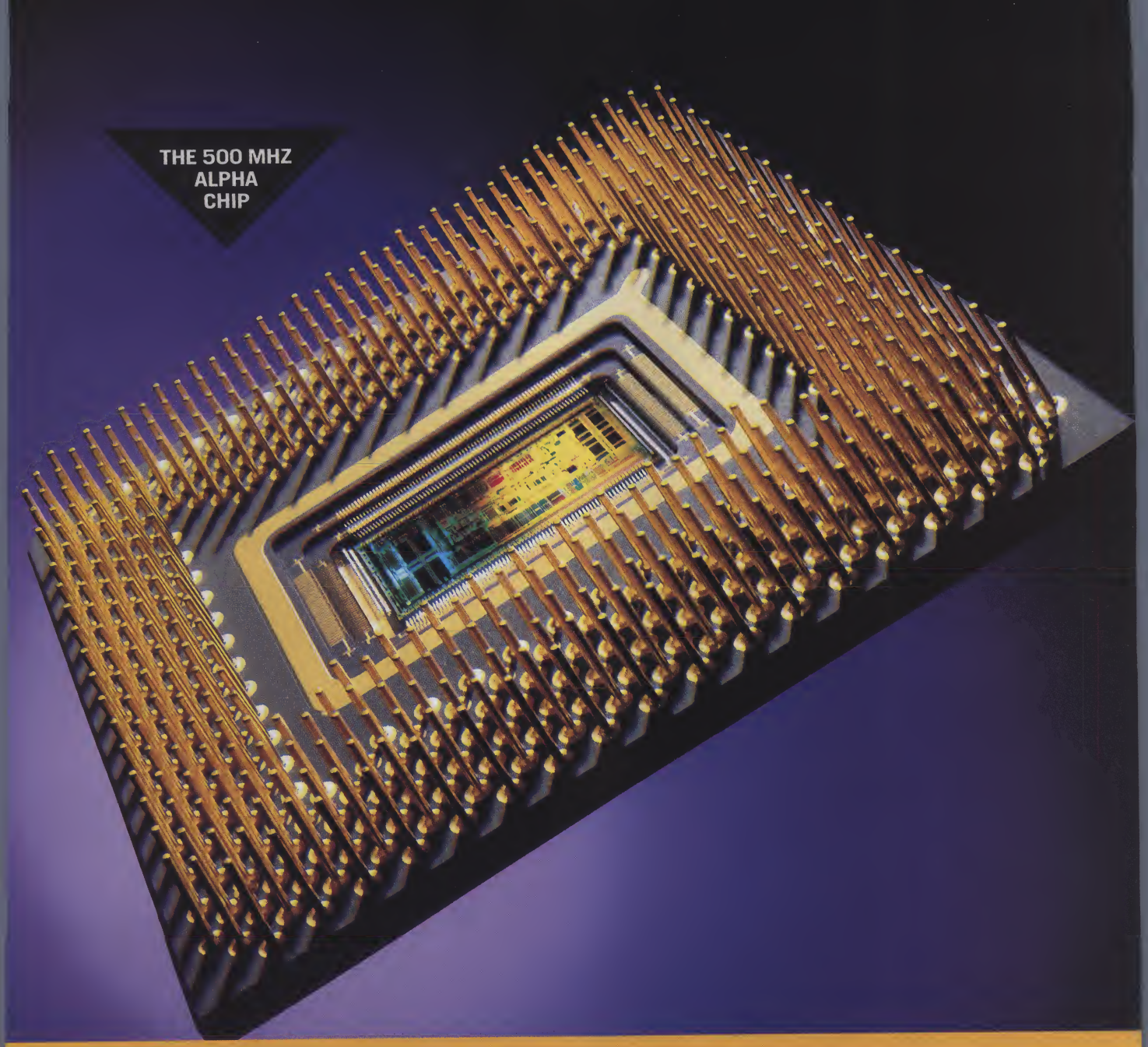
Coming Soon
SEANOTE
Ask your representative how many C-Notes it takes to buy a Seanote

*All systems come standard with 3.5 Diskette Drive, Mini-Tower Versatile Case, 104-Key Keyboard, Microsoft IntelliMouse™ and Windows® 95

Prices and configurations valid for sales in the USA only. Specifications on prices and configurations are subject to change without notice. Prices do not include shipping charges or applicable taxes. The Intel Inside Logo, Pentium, Pentium II are registered trademarks and MMX is a trademark of the Intel Corporation. Microsoft, Windows and Window NT are registered trademarks of Microsoft Corporation. All other service marks, trademarks and registered trademarks are the property of their respective companies. Business leases are based on 36 months. Lease rates are subject to change without notice or obligation.

Circle 367 on reader service card.


DON'T KEEP
IT WAITING.
IT HATES
THAT.



A PC powered by an Alpha processor is completely in sync with your need for speed. It lets you run your Windows NT® software on the world's fastest microprocessor. Alpha PCs run your favorite Windows® software as well. And they're available, at competitive prices, from a variety of manufacturers right now.

MICROSOFT WINDOWS NT COMPATIBLE

So don't waste valuable seconds–call (888) ALPHA-45 today for details. Or see us at www.alphapowered.com.

©1997 Digital Equipment Corporation. DIGITAL, the DIGITAL logo and AlphaPowered are trademarks of Digital Equipment Corp. Mitsubishi is a registered trademark of Mitsubishi Electric Corp. Samsung is a trademark of Samsung Electronics Co. Windows and Windows NT are registered trademarks of Microsoft Corp.

digital™ MITSUBISHI SAMSUNG

Alpha processors are made by these leading technology companies.

AlphaPowered™

Seeing is Believing.



(fish not included!)

See Us At

COMDEX® Fall '97 Sands Expo Booth# S2544

Be part of the scene with SHINHO monitors! Produced in ISO 9001 certified factories, SHINHO monitors provide complete user-friendly adjustments and set new standards for Value in Technology. Our AV2 monitors are true "Plug-n-Play," right out of the box! Add our 3-year Limited Warranty on parts and labor, and you have the best value in monitor technology available today. Call *toll free* 1-888-4-SHINHO (474-4646) to see all the believable details.

Circle 276 on reader service card.

SHINHO®

Value in Technology™

(888)4-SHINHO

(888)474-4646

16200 A Carmenita, Cerritos, CA 90703
Tel: 562-802-8116 • Fax: 562-802-7637
Internet: http://www.shinhousa.com
E-mail: shinho@shinhousa.com

Calling Cards

BY DAVE GERDING

Superfast modems, speedy ISDN adapters, *and blazing-fast* Ethernet cards—today's PC Cards do it all!

Have notebook, will travel. Stay connected with colleagues via your office network or the Internet with the newest PC Cards. These credit-card–size devices pack 33.6Kbps and 56Kbps modems, ISDN adapters, and 10/100 Ethernet cards.

Some PC Cards use the new CardBus technology, which allows for faster, more consistent connections than Type II PC Cards deliver. CardBus yields as much as a fourfold increase in network card performance, although it won't make much difference for slower connections, as with modems. To use a CardBus PC Card your notebook must have a wide, CardBus-compatible slot.

Whether you go with CardBus or Type II, you should have few installation problems—a welcome improvement thanks to Windows 95.



Simple Technology 56K Communicator: The Simplejack connector eliminates the need for a separate adapter.



3Com Fast EtherLink XL: The card's thicker format means it supports the new CardBus standard for fast connections.



Xircom CreditCard Ethernet 10/100: A single adapter works for either your network or 56K modem connections.

PHOTOGRAPHS BY ERNIE FRIEDLANDER



Modems and ISDN Adapters

Product	Price*	Type	Verdict
PC Computing BEST **Simple Technology 56K Communicator** (800) 367-7330 *Reader Service No. 736*	$190	Type II	★★★★★ Have it all: K56flex connections out of the box, along with one-piece hookups, voice mail, and cellular support—all at an irresistible price.
3Com Megahertz 128K ISDN PC Card (800) 527-8677 *Reader Service No. 737*	$399	Type II	★★★★ Spare no expense for the fastest Net connections possible with this excellent ISDN adapter.
3Com Megahertz XJ1560 (800) 527-8677 *Reader Service No. 738*	$269	Type II	★★★★ Talk about features: x2 56Kbps connections, a pop-out connector, and digital phone line protection—but you pay for it.
Diamond Multimedia Supra PC Card (800) 727-8772 *Reader Service No. 739*	$199	Type II	★★★★ Easy K56flex connections out of the box, but it lacks the bells and whistles of the Simple and 3Com cards.
Ositech Five of Hearts (888) 674-8324 *Reader Service No. 740*	$270	Type II	★★★★ You get what you pay for: a K56flex modem—the only one with a Digital Phone Interface for painless PBX connections. Also offers cellular support.
Practical Peripherals PCMCIA 336 with EZPort (800) 225-4774 *Reader Service No. 741*	$159	Type II	★★★★ The budget way to easy hookups, thanks to its built-in EZjack. But you must trade it in to upgrade to K56flex.
TDK Systems CyberExpress 5600 (800) 999-4835 *Reader Service No. 742*	$199	Type II	★★★★ Speedy K56flex connections, voice mail, and digital-line protection. Plus you get one-piece connections.
Viking Components 33.6 (800) 338-2361 *Reader Service No. 743*	$105	Type II	★★★★ It's a steal: You can upgrade the card to K56flex without spending a penny more.
Cardinal Technologies MVP34PC (800) 947-0808 *Reader Service No. 744*	$179	Type II	★★★ A solid 33.6Kbps modem that's 56K-upgradable and has digital-phone protection. But you must trade it in to support 56K.
Eiger Labs EigerCom 56K (800) 653-4437 *Reader Service No. 745*	$199	Type II	★★★ Don't need voice mail, cellular support, or digital phone protection? Consider this solid K56flex contender.
Hayes Optima 33.6 PCMCIA with EZJack (770) 840-9200 *Reader Service No. 746*	$219	Type II	★★★ You pay the price for an adapterless connection, and if you demand more speed you must trade it in to support K56flex connections.
IBM 33.6 PCMCIA Data/Fax/Voice with XJack (800) 426-2968 *Reader Service No. 747*	$219	Type II	★★★ Top-drawer features—voice-mail support, x2 56Kbps upgradability, and no adapters required—but for a price.
Multi-Tech MultiMobile MT5600ZLX (800) 328-9717 *Reader Service No. 748*	$195	Type II	★★★ For purists only: A bare-bones K56flex modem that requires an adapter and lacks voice support and digital phone connections.
IBM WaveRunner (800) 426-2968 *Reader Service No. 749*	$495	Type II	★★ Sure you want the speed of ISDN, but not at this high price. Its spotty drivers make it the exception to the easy-installation rule.

*ESTIMATED STREET PRICE.

★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

introducing

REVOLUTION™ 3D.

Powered by



GET IN. or GET OUT OF the WAY.

All Terrain VIDEO

Want a revolution? Well, at Number Nine, we're changing the world - of graphics acceleration. Powered by our proprietary TICKET TO RIDE™ chip, the new REVOLUTION™ 3D puts 3D rendering, 2D acceleration and full-screen full-res MPEG video in a single 128-bit chip. Now you can make D3D and OpenGL apps fly. This is one rugged package that drives your display where you need it to go.

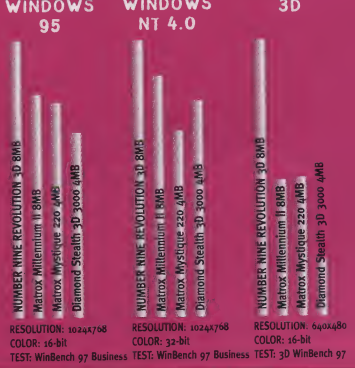
Strap yourself into the newest member of our All Terrain Video fleet. Blast through 3D. Rip through MPEG. Get ready for the video ride of your life, **starting at just $349 (MSRP.)**

The revolution is here.
Get in.

Windowed 3D Authoring

Publishing/ Media Creation

CAD/ CAM/ Imaging



INGRAM MICRO

ICG

MERISEL

Tech Data

NUMBER NINE
VISUAL TECHNOLOGY

www.nine.com

1-800-GET-NINE

Circle 231 on reader service card.



10/100 Ethernet Adapters

Product	Price*	Type	Verdict
PC Computing BEST **3Com Fast EtherLink XL** (800) 638-3266 *Reader Service No. 750*	$189	Card-Bus	★★★★★ This speedy CardBus adapter won't drain your notebook's battery or your pocketbook—and you'll love its LED indicators and the pop-out connector.
Ositech Trumpcard Seven of Diamonds (888) 674-8324 *Reader Service No. 751*	$170	Type II	★★★★ The best deal for a Type II network adapter. An affordable way to get standard or Fast Ethernet connections, but you have to use an adapter.
SMC EtherPower 10/100 CardBus PC Card (800) 762-4968 *Reader Service No. 752*	$194 list	Card-Bus	★★★★ One of the least expensive CardBus adapters around—and it has LED indicators for troubleshooting network connections.
TDK Systems Network Flyer 100 (800) 999-4835 *Reader Service No. 753*	$190	Card-Bus	★★★★ A solid CardBus contender with a nice slim adapter—but its documentation could be better.
Xircom CardBus Ethernet 10/100 (800) 438-4526 *Reader Service No. 754*	$229	Card-Bus	★★★★ This CardBus speed demon will cost you, but you'll appreciate its excellent documentation and easy connections.
Xircom CreditCard Ethernet 10/100 Ready (800) 438-4526 *Reader Service No. 755*	$199	Type II	★★★★ Like its newer CardBus sibling, this sound Type II adapter provides painless setup and easy-to-follow documentation.
Compaq Netelligent 10/100 (800) 345-1518 *Reader Service No. 756*	$261	Type II	★★ Its bulky adapter and shield are too cumbersome for life on the road. Consider it if you travel only to and from your office.
Eiger Labs EigerNet (800) 653-4437 *Reader Service No. 757*	$199	Type II	★★ A decent card, but setup is a hassle because you have to turn off your notebook. Also, its adapter is a bit hefty.

*ESTIMATED STREET PRICE UNLESS NOTED OTHERWISE.



Multifunction Cards

Product	Price*	Type	Verdict
PC Computing BEST **Xircom CreditCard Ethernet 10/100+ Modem 56** (800) 438-4526 *Reader Service No. 758*	$379	Type II	★★★★★ You get the speediest portable Fast Ethernet and 56K connections in a single card.
3Com EtherLink III Lan+33.6 Modem (800) 638-3266 *Reader Service No. 759*	$379	Type II	★★★★ A notch below the Xircom with only a 33.6Kbps, modem and separate adapters, but still a great buy.
Digi DataFire Go Series PC Card (800) 344-4273 *Reader Service No. 760*	$357	Type II	★★★ A good value: An ISDN adapter and a 33.6Kbps modem for under $400.

*ESTIMATED STREET PRICE.

★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

Your first round is on us.

Try CSi (CompuServe) yourself, free for 10 hours. Simply complete and return this reply card or call 1-800-462-2672. We'll send your free CSi software and everything you need to get started. We'll even waive your first month's membership fee, which includes access to CSi and the Internet for 10 free hours.

Name _____

Address _____

City, State, ZIP _____

Phone _____



Which computing platform do you use (select one)? ❑ Windows 95 ❑ Windows 3.x ❑ Power Mac ❑ 68k Mac

Do you have a CD-ROM drive? ❑ Yes ❑ No

MRPC 1097 ©1997 CompuServe Incorporated. All rights reserved. CompuServe is a registered trademark of CompuServe Incorporated.

CS-AA326 (10/97)

NO POSTAGE
NECESSARY
IF MAILED IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST CLASS MAIL PERMIT NO. 4650 COLUMBUS, OH

POSTAGE WILL BE PAID BY ADDRESSEE

COMPUSERVE
PO BOX 182680
COLUMBUS OH 43272-0324



The online service for those who already have a social life.

In the online world, there's a time and place for everything. And when it's time to get things done, there's no better place than CSi (CompuServe). Here, everything is organized with efficiency in mind. Which means you can get to whatever you're after—late-breaking news, e-mail, expert advice, or content from the Web—a lot faster, and smarter. So you can get back to the rest of your life a lot sooner. Call us and try CSi yourself. After all, if you're online because you need to be, this is the online service you need.

CSi℠
COMPUSERVE®
Get on with it.

Call 1-800-462-2672 to get your free CSi software and 10 free hours.

©1997 CompuServe Incorporated. All rights reserved. CompuServe is a registered trademark and CSi and the CSi logo are service marks of CompuServe.

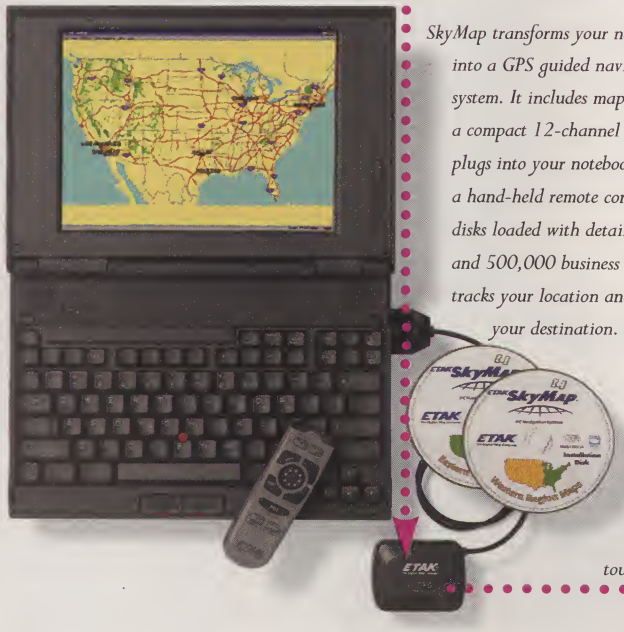
Circle 311 on reader service card.

Ever Wonder Why Some P
Where Th



Global Positioning System (GPS) satellites constantly download positioning data to SkyMap's GPS antenna attached to your notebook PC. So you'll always know where you are and where you're going. In real time.*

SkyMap.™
The Ultimate GPS System for the Mobile Professional.



SkyMap transforms your notebook PC into a GPS guided navigation and map system. It includes mapping software, a compact 12-channel GPS antenna that plugs into your notebook's PC card slot, a hand-held remote control and CD-ROM disks loaded with detailed maps of the U.S. and 500,000 business listings. SkyMap tracks your location and progress toward your destination.



The powerful 12-channel antenna weighs but a few ounces. And the remote control lets you operate SkyMap without touching your mouse or keyboard.

**The GPS tracking system is generally accurate within 100 meters, however, various factors may affect the tracking system and further impede its ability to accurately track location. Map data contained in this product may contain errors and omissions.*

EOPLE ALWAYS SEEM TO KNOW EY'RE GOING?



If, as they say, 90 percent of business success is being in the right place at the right time, you basically have two choices.



Develop a strong sense of direction and timing. Or get SkyMap by Etak. SkyMap, you see, is a satellite-based GPS mobile navigation and map system that plugs into your Windows® 95 notebook PC. Its detailed maps show you where you are and where you're going in real time. Even as you're on your way.







SkyMap's detailed maps include highways, streets, landmarks and over 500,000 business listings (hotels, restaurants, gas stations and more). And you can easily add your own personal landmarks and destinations.

SkyMap comes complete with maps, business listings, GPS antenna and a remote control that lets you navigate without touching your keyboard or mouse. All for just $299.95 (including 30-day money back guarantee). All you need is a notebook PC. And a destination.

FREE OFFER
Buy SkyMap now. Get free Maximizer™ Personal contact manager and a Motorola® pager ($120 total value)**

***Pager requires 12 month purchase of air time.*

SkyMap. Call 1-888-2SKYMAP (1-888-275-9627).
Or see us on the Web at www.etak.com/startGPS.
And before long, you'll know exactly where you're going.

Do not use this product in any way that interferes with safe vehicle operation. Always secure system components.

ETAK®
The Digital Map Company

A Unit of the Sony Group.

Circle 290 on reader service card.

Specifications may change without notice. Etak is a registered trademark and SkyMap is a trademark of Etak, Inc. All other trademarks are the property of their respective owners. © Etak, Inc. 1997. Offer valid while supplies last.

You can make
sacrifices
for your career.

You can make
sacrifices
for your family.

Or you can
choose not
to make sacrifices.



Introducing the Compaq Armada 7700. The high performance notebook that offers you the power and functionality of an office desktop as far from your office as you need to be. Armada 7700 features include: up to 166 MHz Pentium® processor with MMX™ technology, 12.1" CTFT display,

©1997 Compaq Computer Corporation. All rights reserved. Compaq registered U.S. Patent and Trademark Office. Armada is a trademark of Compaq Computer Corporation. The Intel Inside Logo and Pentium are registered trademarks and MM may not reach 56Kbps, and will vary depending on line conditions.



up to 2.1 GB removable hard drive, up to 32 MB EDO RAM expandable to 144 MB, integrated 33.6K telephony modem upgradeable to 56K*, integrated AC, and full desktop expansion.

To locate a Compaq Authorized Reseller, call 1-800-943-7656 or visit www.compaq.com.

COMPAQ

Has It Changed Your Life Yet?

trademark of Intel Corporation. *Upgrade planned for year end. The K56flex protocol is designed only to allow faster downloads from K56flex compliant digital sources. Maximum achievable download transmission rates are currently unknown,

"What's the matter? Speakerphone got your tongue?"



- *Only **$499** for the world's best-selling, **full-duplex** conference phone.*
- *Three **intelligent mics** won't clip words.*
- *Large, **hi-fi speaker** keeps words crystal clear.*
- *Advanced audio circuits adjust to room acoustics.*

Ordinary speakerphones can clip your words, effectively leaving you tongue-tied. With Polycom's SoundStation conference phone, you get the highest-quality, two-way communications available. Now, everything you say gets heard more clearly. That's why 95 of the Fortune 100 rely on Polycom.
Contact Polycom at www.polycom.com or 800-251-6387

To Demo a Polycom Conference phone, contact your authorized distributor or visit our display at these retail locations and hear the difference.

COMPUSA THE COMPUTER SUPERSTORE®
COMPUTER City
COMMUNICATION EXPO

POLYCOM®
Advanced Teleconferencing Solutions

© 1997 Polycom, Inc. All rights reserved. Polycom, the Polycom logo design, and SoundStation are registered trademarks of Polycom, Inc.

Circle 371 on reader service card.

PUT YOUR NET ON THE Net

BY JEFF HADFIELD



- Add Web browsing and e-mail to your network.
- Plug-and-go setup.
- Wizard-driven installation and maintenance.
- All users share a single ISP account and modem.

Looking for an easy way to put everyone in your office on the Internet? We've found the secret ingredient—and it's not bringing in a SWAT team of network hackers to rewire the building. New all-in-one hardware solutions transform your existing network server, modem line, and single ISP account into Internet access for the entire office. What's more, you won't lose bandwidth (unless everyone decides to download a 2MB file at the same time). And you'll spend thousands of dollars less than you would for dedicated server equipment and setup.

Whether you have a Microsoft Windows NT or Novell NetWare network, there's a one-box way to connect it to the outside world. Companies starting with a TCP/IP-based NT network can choose among Web boxes that give them e-mail, Web browsing, and even Web serving. NetWare networks require IPX-to-IP gateways, which translate between NetWare's language (IPX/SPX) and Internet protocol and provide e-mail, FTP capability, and browsing.

Click. Click. Done! New all-in-one Web boxes connect your entire office to the Internet in minutes.

PC Computing's Labs put seven network-to-Internet products to the test to help you decide which solution best fits your company's current setup—and gets your network on the Web fast.

PHOTOGRAPHS BY ERNIE FRIEDLANDER

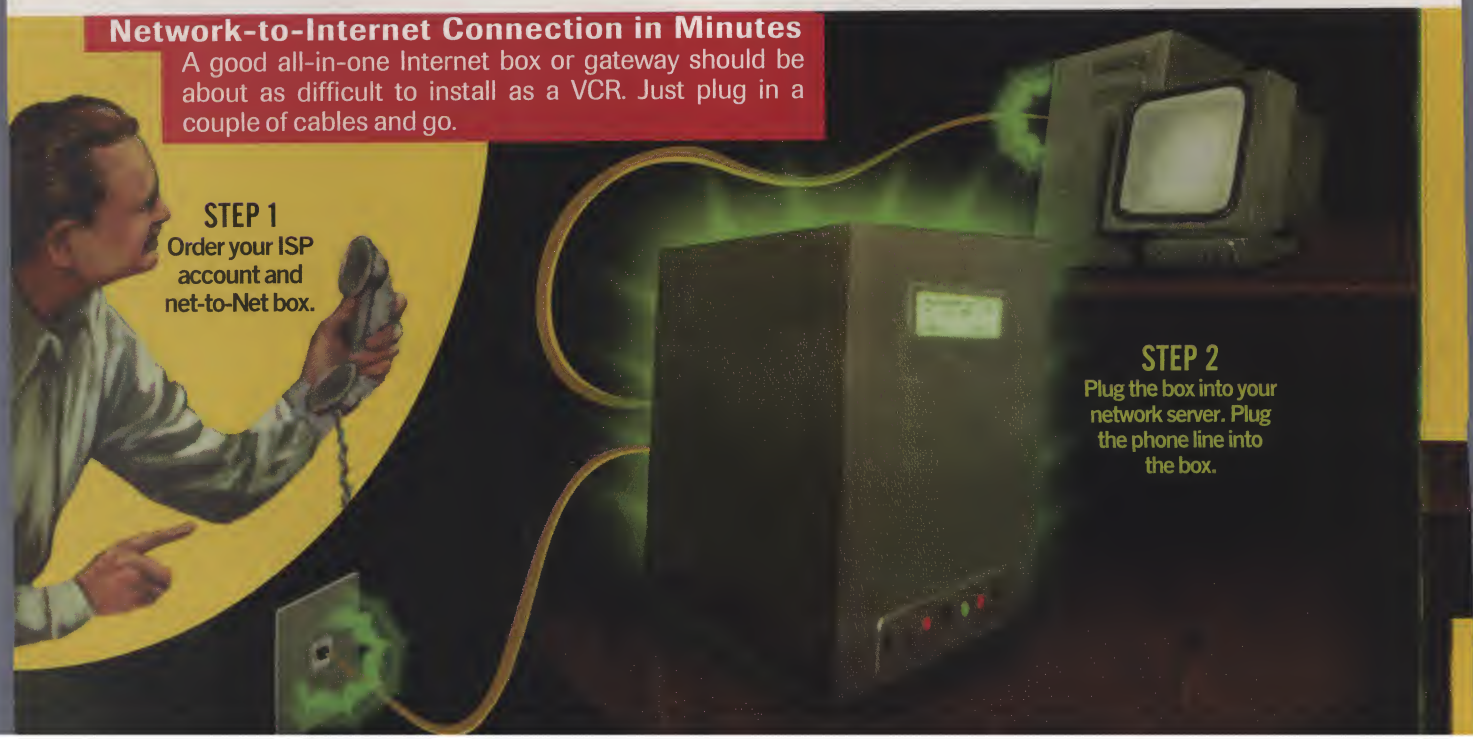
Here's the idea: You don't need to know how your CD player reads a disc to play your favorite album. You just plug it into the amplifier, turn it on, load a disc, push Play, and hear it sing. In the same way, you shouldn't have to understand what a network-to-Internet solution is doing to plug your network into the Web. Power it up, load some software, press several buttons, and watch it go.

But is it really that easy? The answer—as it happens far too often—is *it depends*. Some of these Internet devices are so easy to set up you'll have your network wired for e-mail and Web browsing before you've finished your first cup of coffee. Others require a little more expertise but offer powerful features the instant solutions lack. But the first thing to keep in mind is your current network setup: For TCP/IP-based NT networks choose an instant Internet box like Apexx Technology's Team Internet, Illimite's InterNet-Link, i-Planet's IPS-168, or Whistle Communications' InterJet 100. Existing Novell NetWare networks need an IPX-to-IP gateway—like Bay Networks' Instant Internet, Ramp Networks' WebRamp IPX (for ISDN connections only), or Quarterdeck's IWare Connect 3.0 software solution.

Net Connection All-in-one boxes don't just hook your NT-based network to the Internet, they also act as mini Web servers with minimal fuss. In the past, to connect your TCP/IP network to the Net you'd use a router, which spawned more setup headaches. Today's instant Internet boxes do more than network-to-Internet routing: They offer wizard-based network e-mail and intranet setup, Web page hosting, and a full suite of easy server-administration tools. Since they are essentially small computers, they can store Web pages, e-mail accounts, and other files. Why buy one of these instead of a dedicated Windows NT Server running Microsoft Exchange Server and Internet Information Server software? These boxes are cheaper—you'll save at least $3,000—and they're easier to connect, configure, and use.

The ideal one-stop solution takes you from zero to Internet fast—in about half an hour, to be exact. Both the Whistle InterJet 100 and the Apexx Team Internet were a breeze to install and configure, but the InterJet 100 had a slight edge in our usability testing. Because you buy the InterJet from a certified ISP, it comes preconfigured with the correct settings, eliminating a potentially confusing step you have to do yourself with the Team Internet. For both boxes, however, overall setup is simple: Plug the box into the network, plug it into the phone jack, hit the power switch, and install the server and client software. Both feature well-designed, straightforward, wizard-based installation programs; support analog and ISDN connections; and provide firewall security. T1 support is available for the InterJet and will be an option for the Team Internet in the next month.

Small Is Beautiful Office networks with up to 25 users can't go wrong with the InterJet 100 (bigger shops can opt for the 120 model or the brand-new 200—both support up to 100 users). It costs a bit more than the Apexx box ($1,995 vs. $1,695 starting price,



respectively), but it's tops for easy setup and you get some attractive extras—like an Apache Web server. The InterJet also offers Macintosh compatibility, a domain name system (DNS) server, mailing list support, battery backup, and an integrated four-port hub.

You'll also want to consider the software each box provides. The InterJet installs Netscape Navigator 3.0 and Qualcomm Eudora Light for e-mail, while the Team Internet comes with Microsoft Mail and News and lets you use any Web browser. But the Team Internet's fuzzy directions for setting up e-mail and newsgroup user accounts proved frustrating. However, useful extras—like a 56Kbps modem for $100 more and a Windows 95 Taskbar icon showing connection status—make it a likable solution, especially if you don't want to limit yourself to one of the InterJet's 100 or so certified ISPs.

More Power to You For a box stocked with even more muscle, consider the i-Planet IPS-168 ($4,995 and up) or the Illimite InterNet-Link ($3,995), which both include more features but leave those with less network experience lost at times. Far easier to install than the InterNet-Link, the IPS-168 features heavy-duty firewall security, Internet faxing (as an add-on), plus some useful administrative tools.

The InterNet-Link was the most painful to set up and the hardest to use of all the products we tested. Essentially a Linux terminal with rudimentary installation software, it's confusing even for those familiar with network configuration. The InterNet-Link includes many high-end features, but they were difficult to find and use. For advanced features, we'll take the IPS-168 over the InterNet-Link.

NetWare to the Net IPX-to-IP gateways connect your NetWare network to the Internet. They're designed to save you the hassle of installing a new network protocol on each desktop, assigning each desktop its own IP address, and taking care of a multitude of other setup details.

Novell NetWare networks move packets of information between PCs using the IPX/SPX protocol. The Internet speaks a different language—TCP/IP. Previously, translating between the two required a network pro to perform complex setup and routing. But IPX-to-IP gateways let you bypass the hard stuff and get connected in a matter of minutes. To avoid delays, make sure you have administrator rights to the network before you start.

Bay Networks' Instant Internet (which starts at $2,495) is by far the slickest gateway solution of the three we tested. Setup is a dream: Simply connect the box to any NetWare server, then plug in the Internet jack—analog, ISDN, or T1. Ramp Networks' $1,499 WebRamp IPX offers comparably smooth ISDN setup, but with more connection options, Instant Internet shines from the start.

Setup Wizardry After connecting the cables, you'll need to install setup software from any client on the network. Both the Instant Internet and the WebRamp IPX come with wizard-driven setup routines that install both server and client software. The Instant Internet includes powerful software like Qualcomm's Eudora Pro e-mail package, a Web browser, an FTP program, and a Telnet program. The WebRamp IPX bundles the outdated Microsoft Internet Explorer 2.0.

But while the Instant Internet doesn't require you to install anything except the applications on your client machines, the WebRamp IPX makes you visit every Windows 95 workstation on the network to install an additional proprietary protocol. Odds are you're buying an IPX-to-IP gateway to avoid this time-consuming step. For some, it may make more sense to install the TCP/IP protocol and then connect to the Internet using a standard IP router.

Next there's a bit of server configuration to perform. The Instant Internet comes with preconfigured scripts for over 600 ISPs. (Bay Networks will even write a custom script if your ISP isn't listed.) The WebRamp IPX includes a handy worksheet to fax to your ISDN provider, along with tests that spot typos in the script and show you the trouble spots.

With both hardware solutions, gateway administration is a snap. The Instant Internet's Novell Directory Services–style interface automatically loads NetWare's existing users and groups. You can assign privileges and restrictions to any of these, and even use wild cards (asterisks) to prevent



Top Net-to-Net Solutions

Product	Price*	Pros	Cons	Verdict
PC Computing BEST **Whistle Communications InterJet 100** (888) 494-4785 *Reader Service No. 763*	$1,995 list	Low cost; painless setup; includes all the hardware and software you need for Net access; preconfigured to work with an ISP; built-in firewall; features an Apache Web server.	Must be purchased from a certified ISP; no way to control user access to specific Web sites.	★★★★★ The fastest and easiest way to get a small company's Windows NT network on the Internet—and it's painless to administer.
Apexx Technology Team Internet (800) 767-4858 *Reader Service No. 764*	Starts at $1,695	Simple, wizard-driven setup; lets you use any Web browser; built-in firewall.	Microsoft Mail and News client setup not well documented; no Web server.	★★★★ For NT networks, a close second to the Whistle InterJet: easy to set up, maintain, and use.
Bay Networks Instant Internet (800) 784-4638 *Reader Service No. 765*	Starts at $2,495	A snap to use; easy client installation; drag-and-drop administration and filters; uses NetWare user and group lists; works with all types of Net connections; built-in firewall.	Pricey; can't act as a Web server.	★★★★ Makes putting your NetWare network on the Internet—and setting user access—a walk in the park.
i-Planet IPS-168 (408) 745-1500 *Reader Service No. 766*	Starts at $4,995	Advanced features and a wide array of add-ons such as Internet faxing; includes a Web server and a built-in firewall.	Hard to set up and configure (requires tweaking the DNS settings); high price.	★★★ Big payoff if you have the time, money, and network expertise to use this all-in-one solution for NT networks.
Quarterdeck Corp. IWare Connect 3.0 (800) 683-6696 *Reader Service No. 767*	Starts at $995	Software-only solution, no new hardware to buy; simple, wizard-driven setup; seamless integration with most versions of NetWare; low price.	For administrators only; minor conflicts with NetWare 4.11; user manual unclear at times.	★★★ A solid choice to connect NetWare networks and save a little cash if you know your way around NetWare.
Ramp Networks WebRamp IPX (888) 726-7638 *Reader Service No. 768*	$1,499 list	Fast ISDN setup; helpful configuration wizard; good error-checking in setup; doubles as network hub.	ISDN only; may require removal of existing NetWare client to avoid conflicts; proprietary networking protocol must be installed on each workstation.	★★★ Choose this if you just want to get your NetWare ISDN network on the Web without dropping a bundle.
Illimite InterNet-Link (716) 271-7128 *Reader Service No. 769*	$3,995	Offers more power than lower-end boxes.	Linux-based; frustratingly difficult setup; poor technical support; inadequate documentation; expensive.	★★ It'll put your NT network on the Net, but it's not for the faint-hearted or network novice.

*ESTIMATED STREET PRICE UNLESS NOTED OTHERWISE.

★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

employees from visiting Web sites or newsgroups with certain words in the address. And a built-in firewall keeps out prowlers. The WebRamp IPX features dial-on-demand, where it drops the connection when idle and reconnects when needed (especially vital if you're paying by the minute). Plus the WebRamp's extra Ethernet ports let it do double duty as a 10MB network hub.

Software Solution But what if you don't want to drop the cash on a hardware solution? Try Quarterdeck's IWare Connect 3.0, a software package that starts at $995. IWare Connect delivers hassle-free, wizard-driven installation to the server, setup of network and client software, and ISP configuration. But you'll need to edit a few server files before you connect a modem and reboot.

IWare integrates beautifully with NetWare, but it requires solid NetWare experience. For example, we had to write a script to launch and end our server's point-to-point protocol connection, and guess at how to set a connection timeout. But by the time you read this, IWare won't be the only software solution. Microsoft's Proxy Server 2.0, not available in time for this roundup, also connects small office networks to the Net via a single IP address. Look for a review in an upcoming issue.

90% of all small businesses have failed.
(They're going to wish we'd thought of this sooner.)



Introducing
NETCENTER™

- Easily share information & equipment
- Simple installation & maintenance
- Stackable compact desktop design
- Lifetime warranty & free support



Still in business, huh? Then you're either lucky, or smart. If you're just lucky, you probably don't need us. But if you're smart, you could use NetCenter,™ the new family of networking products that bring big business performance to small businesses, with a daring twist: simplicity.

That's right, simple networking. Because NetCenter products won't force you to enroll in engineering courses, yet they pack all the punch of costly corporate systems. Which means you can share files, printers, and Internet connections between your PCs, saving time and money.

NetCenter is a whole new concept in networking, designed specifically for small business, and dedicated to keeping the odds in your favor. To find out more, call 1-800-531-0600 for a free copy of our Basic Networking Tutorial, or visit www.netcenter1.dayna.com.

Dayna®

Circle 333 on reader service card.

Simple networking solutions.

www.netcenter1.dayna.com

© 1997 Dayna Communications, Inc. NetCenter is a trademark of Dayna Communications, Inc.

Get Connected

So you've decided to put your network on the Internet. Remember, depending on the type of network you have, you're dealing with two fundamentally different groups of products: an all-in-one Internet box to take your NT network to the next level, or a gateway to link your Novell NetWare network to the Net. The main differences between the two product categories lie not only in your network type but also in the time and level of network experience they require.

To get your TCP/IP-based NT network connected to the Web without any hassle, nothing tops Whistle Communications' InterJet 100. With its connect-the-dots configuration (your ISP does this for you), the InterJet sits just above Apexx Technology's less expensive Team Internet on the scale of top products—and both are astonishingly easy to install. Team Internet is better for those who have a bit more network knowledge and need a broader choice of ISPs, if only because it doesn't come preconfigured. But unlike the Apexx box, the InterJet acts as a Web server too.

For connecting your NetWare network to the Net, choose Bay Networks' Instant Internet. This gateway offers goof-proof, ultrasimple installation and administration. Powerful features plus wide connectivity options—analog, ISDN, T1, and up—make it the best choice of the three gateway solutions we tested. If you're using an ISDN connection, Ramp Networks' WebRamp IPX is an option that also dishes up straightforward setup and won't bust your budget.

If the thought of another piece of hardware is just too daunting and you have a small NetWare network, Quarterdeck's IWare Connect 3.0 could be your ticket to ride. Its sleek integration with NetWare (except version 4.11, where things get a little bumpy) makes it appealing if you're prepared to make some tweaks in the server files.

JEFF HADFIELD *is a freelance writer who specializes in networking, programming, and business applications. Lab testing was conducted by* LULIT BEZUAYEHU *and* JOHN RYAN.

DECISION MAKER — CHOOSE THE RIGHT NET-TO-NET SOLUTION FOR YOUR NEEDS

1 Choose the factor that's most important.	2 Choose the next most important factor.	3 What else is important?	4 For your needs, the best product to buy is . . .
Usability	Price	Windows NT–Based Network	Apexx Technology Team Internet
		Novell NetWare Network	Bay Networks Instant Internet
	Features	Windows NT–Based Network	Whistle Communications InterJet 100
		Novell NetWare Network	Bay Networks Instant Internet
Price	Usability	Windows NT–Based Network	Apexx Technology Team Internet
		Novell NetWare Network	Quarterdeck IWare Connect 3.0
	Features	Windows NT–Based Network	Whistle Communications InterJet 100
		Novell NetWare Network	Ramp Networks WebRamp IPX
Features	Usability	Windows NT–Based Network	i-Planet IPS-168
		Novell NetWare Network	Bay Networks Instant Internet
	Price	Windows NT–Based Network	Whistle Communications InterJet 100
		Novell NetWare Network	Bay Networks Instant Internet

EIZO
PRODUCED BY NANAO

As our story begins, EIZO award winning computer monitors have just become the one and only complete product line proudly pinned with the much sought after TCO 95 certification an esteemed and obviously quite learned Swedish panel of quality experts gave us for our continuing stellar record of unmatched safety, ergonomics and eye-friendly ideas which result in far fewer emissions as well as sharper, flicker-free images that don't tire you out, strain your eyes or ache your head, Distortion Elimination Circuits of which it wouldn't be distorting the facts to say they virtually eliminate visual distortion in EIZO monitors that also enhance visual performance by employing features like SuperErgoCoat to fight off otherwise annoying irritances such as glare, dust, germs, static electricity and probably lots of other harmful stuff we just can't think of right now because the bottom line is these are all products designed to meet the stringent ISO 9241-3 visual standards and create the most comfortable and productive work environment maybe you've ever experienced. Yikes, a long-winded sentence like this and we haven't yet mentioned that EIZO is the universal brand name of Nanao. Or that you can reach us at 1-800-800-5202 as well as on the world wide web at www.eizo.com. Quickly and safely.

WE COULD WRITE A BOOK ON ERGONOMICS AND SAFETY. IN FACT, HERE'S CHAPTER ONE.



EIZO Nanao Technologies Inc., 5710 Warland Drive, Cypress, CA 90630, Phone: 800-800-5202, Fax: 562-431-4811. ©1997 EIZO Nanao Technologies Inc.

OUR MX EDGE HAS MORE...

...options than a swiss army knife!

Check Out Our Website for Details on the EDGE II with 14.1" Screen!



"...MX Edge's fine display and appealing price make it worthy of consideration."

PC Magazine, August 1997



Easy upgradeable SPGA CPU



Notebook with Port Replicator, Two 3W speakers

Line-in, Earphone Jack, Ext. Microphone Jack; PCMCIA Type II x 2 or III x 1



Smart Bay: CD-ROM/FDD/2nd Battery

Options

- 33.6 PCMCIA modem or 10Base-T Lan Adapter
- Port Replicator
- External Battery Charger
- 16, 32, 64 MB upgrades
- Car Adapter
- AC 110V Adapter

LEASE IT!



Ask about our new Docking Station!

- 12.1" SVGA or 13.3" XGA Active Color w/2MB **VRAM**
- 16-80 MB RAM
- 256K L2 Cache
- Smart Bay accepts 16X CDROM or 3.5" Floppy (both included) or optional 2nd battery
- Touchpad
- Li-Ion Battery
- Full size keyboard,Fast IRDA, two Type I or one Type III PCMCIA slot
- Expansion connector
- Nylon carry case
- 6.5 lbs.
- Windows 95
- Lotus Smart Suite '97
- 1 year limited warranty
- 3 year warranty on CPU, memory and Hard Drive
- On-site warranty repair pickup and delivery

CPU	RAM	HD	Screen	CDROM	Price	Lease
166MMX	16MB	2.2GB	12.1"	16X	**$2649**	$ 98/mo
200MMX	32MB	2.2GB	12.1"	16X	**$2849**	$105/mo
233MMX	48MB	3.0GB	12.1"	20X	**$3379**	$124/mo
200MMX	32MB	2.2GB	13.3"	16X	**$3399**	$125/mo
233MMX	80MB	3.0GB	13.3"	20X	**$4355**	$160/mo

ask about the Micro·X guarantee!

AMERICAN EXPRESS Cards · DISCOVER NOVUS · MasterCard · VISA

All prices subject to change without notice. RMA number required on all returns. RMAs shipped prepaid. Shipping not refundable. Not responsible for typographical errors. Government, educational and corporate PO's accepted. All registered and unregistered trademarks are the sole property of their respective companies. Learn more about "Digital Dave" on our website. *We pledge to beat any advertsied price for comparable product and service offered, with written proof of price offer. Good up to 30 days of purchase date.

Micro·X **800-641-5963** **www.microx.com**

OUR MXP-5000 IS...

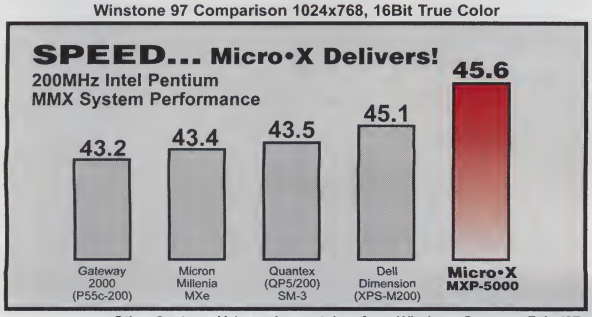


Shown with optional speakers, keyboard & mouse.

...“a KICK-ASS system... top notch components... chart topping performance”!

boot, July 1997

Winstone 97 Comparison 1024x768, 16Bit True Color



Other Systems Values shown, taken from Windows Sources, Feb. '97.

MXP-5000 Multimedia 32 Bit 3D Deluxe

- 7 Bay Mid ATX Tower
- 32MB Fast EDO RAM
- 4.3GB Ultra IDE Hard Drive
- 512KB Pipeline Burst Cache
- Intel 430TX Chipset
- Matrox Mystique 220 w/4MB SGRAM
- 56K Voice Modem
- 24x EIDE CD ROM
- 32 Bit Ensoniq Wave Table Sound Card
- 17" SVGA NI .28DP Monitor (15.8" VIS)
- Micro X Accessory Bundle
- Micro X Software Bundle
- Windows® 95

Intel® Pentium® MMX 233MHz.....$1999

Business Lease $74/month

Intel® Pentium® MMX 200MHz.....$1879

Intel® Pentium® MMX 166MHz.....$1779

ask about the Micro·X guarantee!

Digital Dave was here!

Power, Performance & Dependability!

www.microx.com 800-641-5963

Micro·X

Systems Division of Micro Experts, Inc.

Circle 137 on reader service card.



DP-560 Laser Printer
The trustworthy sibling.

True 600 DPI begets professional quality text. 6 PPM, Windows compatible.
$279*

The Functional Family



DP-570 Laser Printer
The nurturing, dependable spouse.

Prints complex charts, graphs and halftones expeditiously. True 600 DPI, PCL6 printing. 6 PPM, Windows-DOS compatible.
$349*



DP-580 Laser Printer
The gifted yet magnanimous sibling.

Very presentable, high-end resolution—1200 DPI class.
$399*



MIP-650
The multi-faceted matriarch.

Fax/copy/print/scan in one. True 600 DPI, GDI printing. 6 PPM, Windows compatible. **$699***

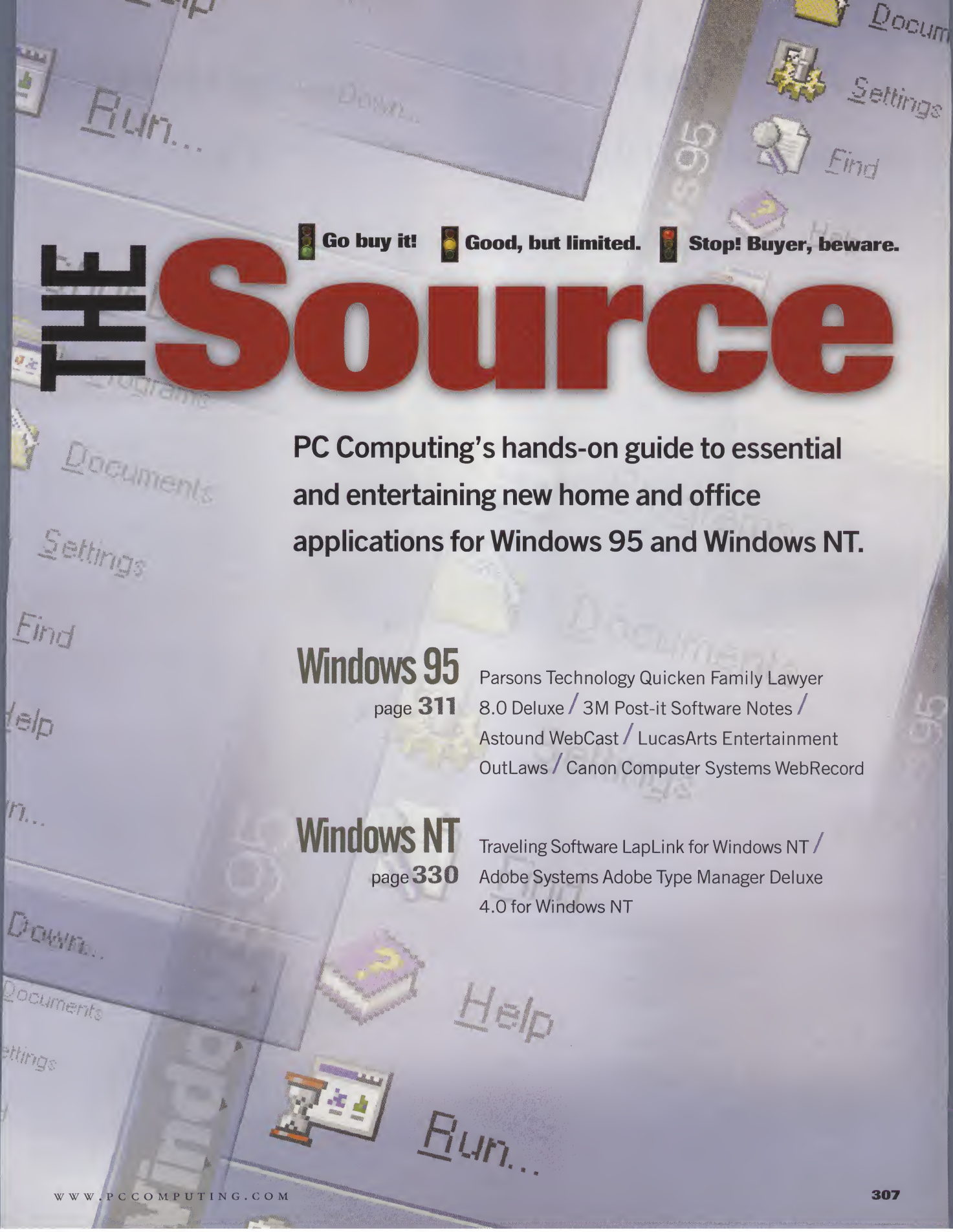


MIP-670
The sage and benevolent grand patriarch.

Fax/copy/print/scan and more. True 600 DPI, PCL6 printing. 6 PPM, Windows-DOS compatible. **$849***

mita can help™
www.mita.com

* Expected selling price. ©1997 Mita Copystar America, Inc. As an ENERGY STAR® Partner, Mita Copystar America, Inc. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



Go buy it! Good, but limited. Stop! Buyer, beware.

THE Source

PC Computing's hands-on guide to essential and entertaining new home and office applications for Windows 95 and Windows NT.

Windows 95

page 311

Parsons Technology Quicken Family Lawyer 8.0 Deluxe / 3M Post-it Software Notes / Astound WebCast / LucasArts Entertainment OutLaws / Canon Computer Systems WebRecord

Windows NT

page 330

Traveling Software LapLink for Windows NT / Adobe Systems Adobe Type Manager Deluxe 4.0 for Windows NT

Expand Your Capabilities!

(without collapsing your checkbook)



When it comes to number crunching, data processing, information storing, graphics generating, presentation blasting performance, Sceptre notebooks rock!

These Sceptre notebooks, from the extreme-performance/ extreme-value S4500 featuring a 166 MHz Intel Pentium® Processor with MMX™ technology to the ultra extreme-performance S5500 featuring a 233 MHz Intel Pentium® Processor with MMO™ (Intel Mobile Module) technology, come with these features:

- Intel low voltage mobile TCP Processor and system controller chipsets
- 2 Type II / 1 Type III PCMCIA slots
- Built-in stereo sound
- 9-cell Lithium-Ion battery with built-in remaining life indicator
- Microsoft Windows 95 installed
- Industry standard security lock ready
- IrDA 1.0 Standard compliance
- One year warranty

Options for Your Soundx

- 33.6k Fax/Modem
- IO port replicator
- Auto hot docking station
- Extended warranty

SOUNDX 5500	SOUNDX 5000	SOUNDX 4500
• 233 MHz Pentium® Processor with MMO™ Technology • 13.3" TFT XGA Display • 48MB RAM (144MB Max.) • 512KB L2 Pipeline Burst Cache • 3.0 GB Hard Drive • Options Bay with 16X CD-ROM or 3.5" Floppy Drive (both included) or Optional 2nd Lithium Ion Battery • Supports ZV port. Card Bus technology • PCI Bus with 128-bit Graphics Accelerator (16.7 M True Colors) • Touchpad / 6.2 lb.	• 233 MHz Pentium® Processor with MMO™ Technology • 12.1" TFT SVGA Display • 32MB RAM (144MB Max.) • 512 KB L2 Pipeline Burst Cache • 2.0 GB (Up to 3.0 GB) Hard Drive • Options Bay with 16X CD-ROM or 3.5" Floppy Drive (both included) or Optional 2nd Lithium Ion Battery • Supports ZV port, Card Bus technology • PCI Bus with 128-bit Graphics Accelerator (16.7 M True Colors) • Touchpad / 6.2 lb.	• 166 MHz Pentium® Processor with MMX™ Technology • 12.1" TFT SVGA Display • 16MB RAM (80MB Max.) • 256KB L2 Pipeline Burst Cache • 2.0GB (Up to 3.0GB) Hard Drive • Options Bay with 12X CD-ROM / 3.5" FDD Module (concurrent use) or Optional 2nd Lithium Ion Battery • Supports ZV port.Card Bus technology • PCI Bus with 128-bit Graphics Accelerator (64K Colors) • Touchpad / 6.9 lb.
$4,999	**$3,999**	**$2,999**

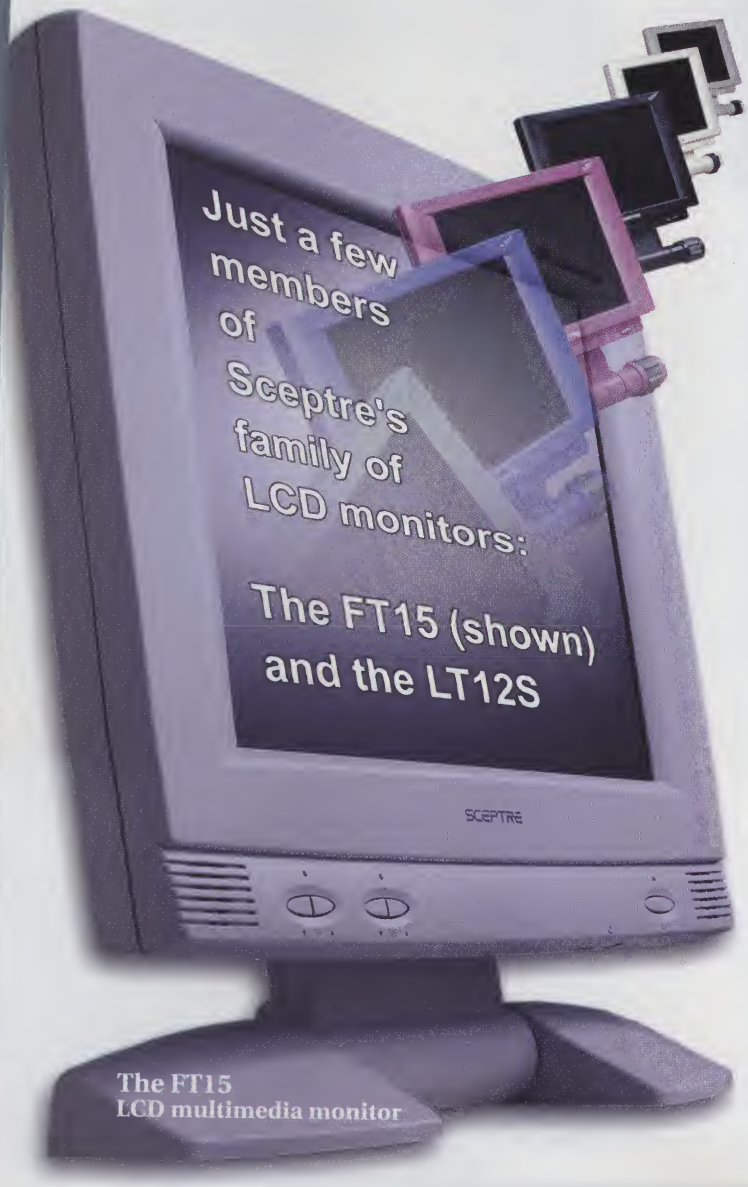
To get you hands on one of these capability expanding machines so you too can rock, call:

888-580-5588

Check out our website at:
www.sceptretech.com

SCEPTRE®
The First, The Best, The Only

Been There, Done That!



Our current model, the FT15, is Sceptre's 5th generation flat panel monitor. We definitely have been there and done that when it comes to providing LCD flat panel monitor solutions! Read what these people have to say about Sceptre:

"I was confronted with the problem of creating an easy to use, computer friendly workstation for our executives who demonstrate our Britannica Online®... I needed a monitor that was both technically and aesthetically appropriate ... Sceptre's LCD allows us to do everything we need to. The price was within our range as well. It's worked like a champ."

Larry Merrick, Vice President, MIS
Encyclopedia Britannica

"I reviewed a few different flat panel monitors. Sceptre's was the best in terms of dimensions, features, and lack of interference. It was also the most realistically priced. It was a pretty easy choice."

Richard Hinson, medical research scientist
Wyeth-Ayerst Research

To find out how a Sceptre LCD flat panel monitor can provide the solution to your challenge, visit our web site at:

www.sceptretech.com

or give us a call at

800-788-2878

1024 x 768 resolution
14.5" diagonal view
Amplified stereo speakers
2.5" thin (without base)
7.5 lb. light (without base)
Easily detached base
(FT15 also available in charcoal gray)



SCEPTRE®

EXCELLENCE FOR ALL THE WORLD TO SEE

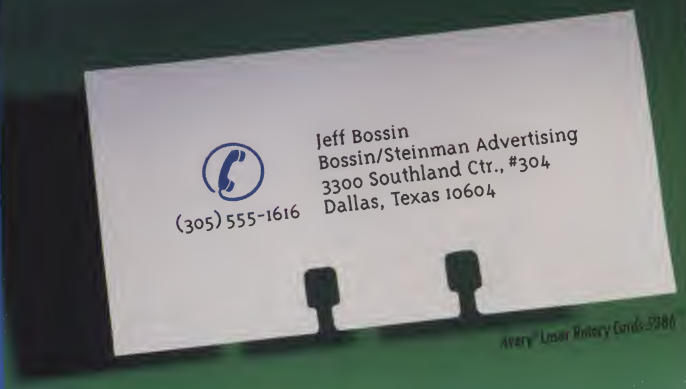
Circle 328 on reader service card.

Behold the elusive "You'd never know what was stuck here a second ago." laser label.

(Not Shown) Avery® Remove'Em™ Laser Labels 6464™

Here today. Or gone tomorrow. Avery® Remove'Em™ Labels stay in place for the long haul. But they can be removed or repositioned easily. And they glide through laser or ink jet printers and come out looking spiffy. You should've seen the one that used to be on this binder.

"I was going to update my contacts, but frankly, my dog has better handwriting."



Avery® Laser Rotary Cards 5386

So why not get Fido to do it? He's busy napping. Anyway, why would you want handwritten rotary cards? Now you can output Avery® rotary cards on your laser or ink jet printer. So, you ask, "How will all this affect *my* life?" Put it this way, if you had a tail, you'd be wagging it.

Chances are the drug store doesn't have a "Please Attend the Grand Opening of Ben's Reptile Emporium" card section.

Avery® Blank Greeting Card 8316™

But did Ben and his reptiles panic? Of course not. Because Ben designed and printed his own customized announcements. Without hassling with a print shop. Avery® card products feed easily through laser or ink jet printers and work well with popular publishing software. Which allowed Ben to personalize his message without anyone's cage getting rattled. Now that's progress.

Working smarter instead of working harder. That's what Avery® is all about. Since preset layouts for most of our products already exist in Microsoft® Word, WordPerfect® and LabelPro®, it takes all the guesswork out of what used to be time consuming projects. And just about everything we make can be output on laser or ink jet printers. Making your work day a little easier. And hopefully, a little shorter.



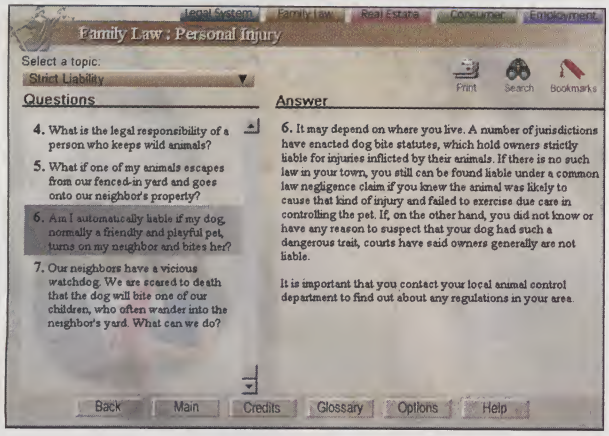
©1997 Avery Dennison Corporation

LEGAL

Quicken Family Lawyer 8.0 Deluxe

Have you heard the one about the lawyer in a box? No joke: It's Quicken Family Lawyer 8.0 Deluxe, Parsons Technology's souped-up version of Family Lawyer that not only walks you through the creation of more than 85 legal documents, it also provides official answers to common legal questions and helps you plan your estate.

To get started, simply answer a series of interview questions and the program generates a personalized list of forms to complete; you can pick and choose from the other forms as a need arises. Create your documents by filling in the blanks; the program notifies you of missing information and lets you spell-check and edit before you print. Moving between components in the package is frustrating, however, because you can't toggle or select your location from anywhere other than the main menu.



This deluxe version packs the American Bar Association Family Legal Guide, a collection of answers to a variety of legal questions—straight from lawyers' mouths. The Quicken Estate Planner offers useful advice and the Plain Language Law Dictionary speaks one language: plain English.

Some legal situations simply can't be untangled without the help of a real lawyer, but Quicken Family Lawyer 8.0 Deluxe shows you what you can do on your own and holds your hand throughout the process. LESLIE AYERS

FILEBOX

Quicken Family Lawyer 8.0 Deluxe

Pros: All you need to create a host of common legal documents in a snap.

Cons: Doesn't let you toggle between components.

Verdict: The only thing better is a lawyer in the family who's willing to give you free advice.

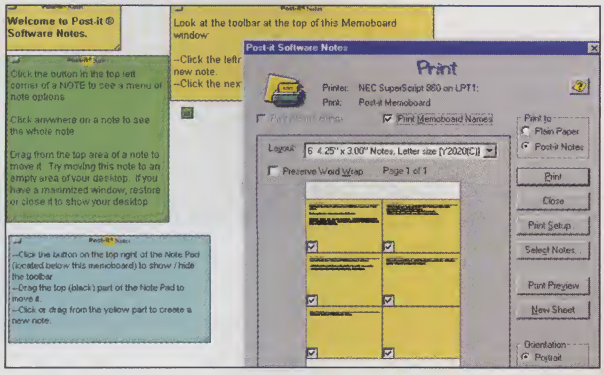
$49 est. street price
Parsons Technology
(888) 883-0791
Reader Service No. 771

DESKTOP UTILITY

Post-it Software Notes

Instead of pasting those little yellow sticky notes all over the edges of your monitor, why not reduce clutter and paste them *in* your monitor? With 3M's Post-it Software Notes, you can tack paperless reminders onto your Windows desktop, and even set them to remind you when it's time to do something.

Creating a new note is as simple as clicking on an icon in your Windows system tray, or peeling one from the omnipresent Post-it logo. Organize notes into virtual memo boards, or just leave them on the desktop. If it gets too cluttered, a few clicks converts a note into a minimized icon.



When a paper Post-it is stuck to your monitor, it's always visible. In theory, a Post-it Software note should work the same way. But individual notes can't reside on top of other applications; they exist only in memo boards or on the Windows desktop. Ironically, you can set the memo boards to live Always on Top, but these cluttered windows eat up too much precious screen space to be practical.

New to version 1.5 are date and time stamps, notes customization, and printing features. Although we like the idea of creating customized notes (*From the Desk of . . .* and such), it seems silly to spend time printing a reminder (*Pick up milk*) that you can just as easily write by hand. But if you're addicted to paper Post-it notes, you might want to give the tree-saving version a try. RICK BROIDA

FILEBOX

Post-it Software Notes

Pros: Can set alarms; new notes customization and date/time stamp features.

Cons: Individual notes don't stick on top of your apps, only the larger memo boards do.

Verdict: A useful utility, but don't toss your paper Post-it pads just yet.

$25 est. street price
3M Corp.
(800) 330-3966
Reader Service No. 772

Complex graphics, detailed text, colorful pie charts, massive spreadsheets. Calls for XGA resolution.

The only way to show high res

is with my Proxima DP9200.



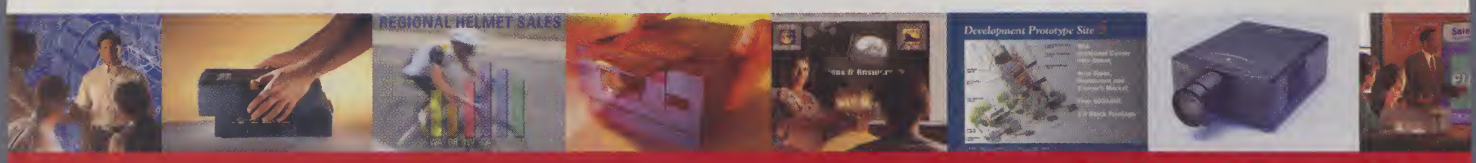


Proxima DP9200

When it comes to presenting, high resolution is everything. I mean, besides brightness and portability. That's why the DP9200 is my only projector. It's both astonishingly bright and amazingly light—a rare combination in a high res projector. It's workstation compatible, too. But the real beauty is that, even at larger sizes, the image is incredibly crisp and bright. And that helps me get my point across.

Call us today for a demo and request your FREE "The How-To's of Powerful Presentations" booklet!
800-447-7692 ext. 449
www.proxima.com

Don't forget to ask about our Proxima® Bright Lease™ program.



Proxima is a registered trademark and Bright Lease is a trademark of Proxima Corporation. ©1997 Proxima Corporation. All rights reserved.

Circle 350 on reader service card.

PROXIMA®
MULTIMEDIA PROJECTORS

FREE AT LAST.





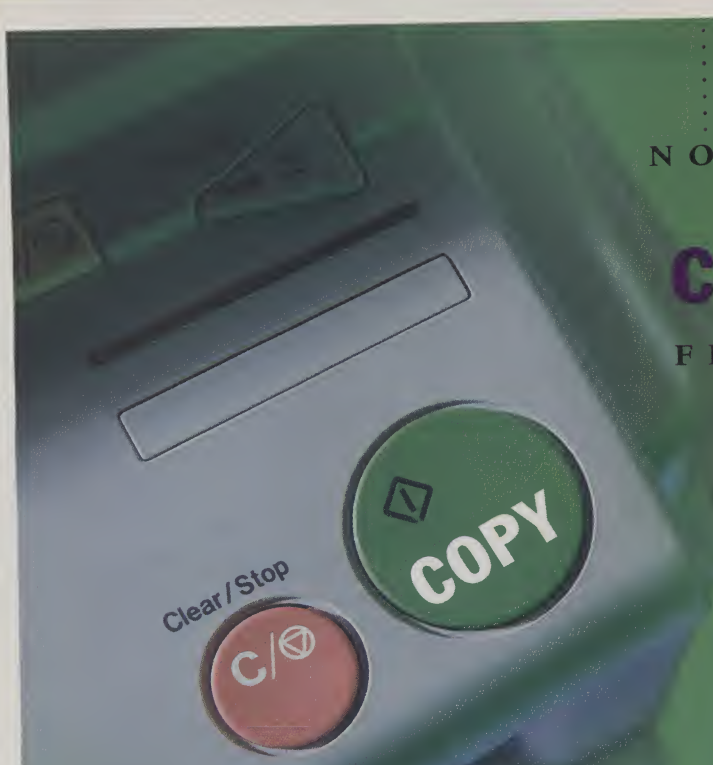
FreeBoard™ Beamer | FreeBoard™ Disk | FreeBoard™ Remote | FreeBoard™ Trackball | FreeBoard™ '95

Absolutely wireless. Absolutely FreeBoard™. Sit, stand, lie down, move anywhere, anytime. Look for genuine FreeBoard technology in leading Web TV™, Network computer and PC/TV products. Call today: 1-888-373-3273. Or visit www.sejin.com.

©1997 Sejin America, Inc., Santa Clara, CA. FreeBoard is a trademark of Sejin America, Inc. All rights reserved. Photo © Lois Greenfield, 1986.

FREEBOARD™ BY SEJIN

Circle 330 on reader service card.



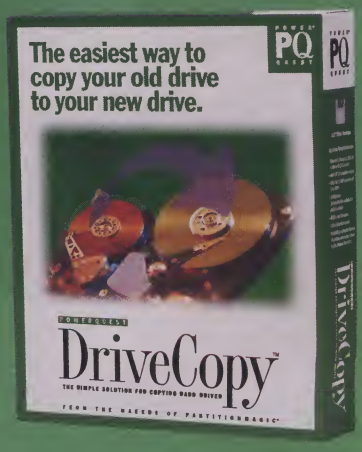
NOW . . . .

Copying EVERYTHING FROM YOUR OLD DRIVE TO YOUR new drive

IS THIS easy.

INTRODUCING **DriveCopy**,™ FROM POWERQUEST® — THE **safest**, **easiest**, AND MOST **affordable** WAY TO COPY YOUR OLD HARD DRIVE TO YOUR **new hard drive** IN MINUTES.

Remember when upgrading to a new hard drive was more painful than doing your income taxes and riskier than bungee jumping? Well, fortunately now there's DriveCopy, from PowerQuest. With a few simple steps, everything from your old hard drive is automatically copied to your new one without losing a single preference, setting, or byte of data. No re-installing, no data loss, no headaches. At just $29.95, DriveCopy makes upgrading to a new drive more affordable and convenient than ever. All of the most common operating systems are supported by DriveCopy, including all versions of Windows 95, NT, 3.x, DOS, and OS/2. For more information, visit our Web site at **www.powerquest.com**.



Try DriveCopy for 60 days. If you're not completely satisfied, return it to PowerQuest and get your money back. Visit your local software reseller or call 1-800-720-0399.

Best Buy • CDW • CompUSA • Computer City • Egghead • Electronics Boutique
Fry's • Future Shop • J&R Computer World • Micro Center • Office Depot

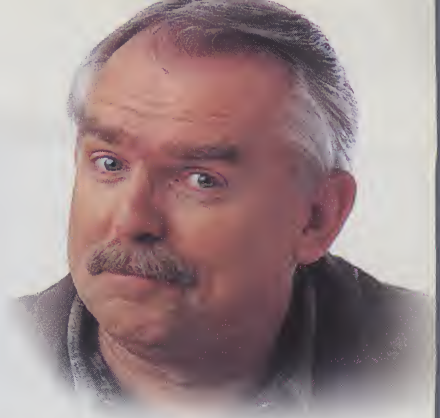
© 1997 PowerQuest Corporation. All rights reserved. PowerQuest, PartitionMagic and DriveCopy are registered trademarks of PowerQuest Corporation. Patents pending.

Circle 309 on reader service card.

FROM THE MAKERS OF PARTITIONMAGIC™

POWER® PQ QUEST

"Imagine never having to go to the post office again"





Presenting the world's first personal postage meter, featuring postage refills by phone in under 30 seconds!

90 day FREE Trial
Special Offer for new Pitney Bowes customers

In a business world where time is money and image is everything, the new Personal Post Office™ gives you everything you need. You'll never go out for stamps again because postage refills by phone in under 30 seconds with total security. And you'll never use too much postage again because the electronic scale eliminates wasted postage. You can even add your own promotional message to ensure your customers and prospects open *your* mail immediately. And despite its big features, the new Personal Post Office™ fits on a corner of your desk!

Look At All You Get For 90 Days Free!

* Pitney Bowes Personal Post Office™
* Electronic Scale
* Business-building direct mail CD-ROM



1. Weigh envelope on *electronic* scale for exact postage



2. Insert envelope and admire instantly metered mail

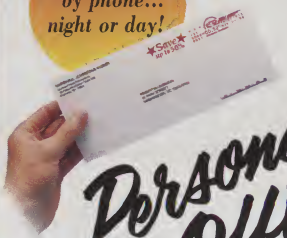


3. Print a sales message or logo



4. Meter envelopes, flats and packages!

Postage refills by phone... night or day!



Personal Post Office™

Limited time offer, so call now!

1-800-5-PITNEY
Ext. PBPC

Mailing made simple™

Pitney Bowes

These Pencils Have Been Sharpened By A DIAMONDTRON.

Sharpen your competitive edge with a DIAMONDTRON aperture grille monitor from Mitsubishi Electronics. Screen images come alive with razor-sharp focus and clarity. Bright, vivid colors with superb contrast. On-screen display system with intuitive front-panel controls. All in ergonomic, exceptionally compact enclosures, with a variety of models in the 17" (16.0" diagonal viewable image) and 21" (19.7" diagonal viewable image) size categories. Plus, Mitsubishi's reputation for quality and durability is backed by a 3-year warranty. Mitsubishi originated the award-winning DIAMONDTRON CRT technology, and continues to innovate rather than imitate. Experience the DIAMONDTRON difference by contacting Mitsubishi Electronics today.

MITSUBISHI DIAMONDTRON CRT TECHNOLOGY

Designed for Microsoft Windows 95 · MacOS · CADALYST LABS 1997 · PC WORLD BEST BUY · PCMagNews Test Center Recommended · JULY 1997 Macworld STAR Rating ★★★★ 72 · CBG&H BEST BUY · BEST BUY MacUser · MacWorthy

USA: 1-800-843-2515 • Canada: 1-800-387-9630 • Qwikfax: 1-800-937-2094
World Wide Web: www.mitsubishi-display.com



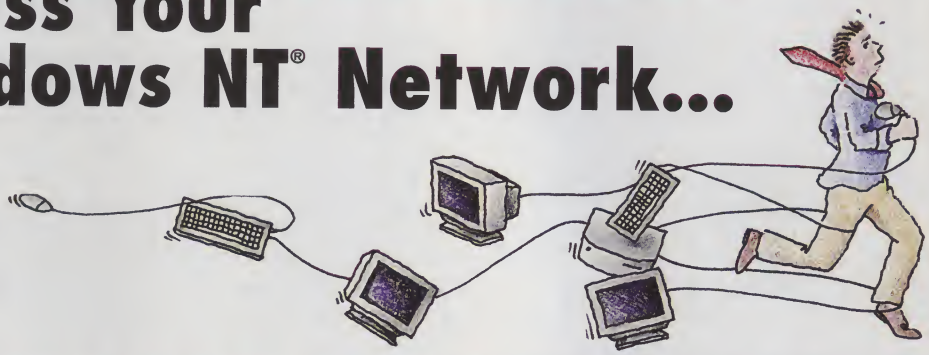
MITSUBISHI
DISPLAY PRODUCTS
*Innovation On Display*sm

Circle 318 on reader service card.

©1997 Mitsubishi Electronics America, Inc. DIAMONDTRON is a trademark of Mitsubishi Electric Corporation.
Microsoft, Windows and the Windows logo are registered trademarks of Microsoft Corporation. Mac and the Mac OS logo are trademarks of Apple Computer, Inc.

ELIMINATE FRAGMENTATION

Across Your Windows NT® Network...



...WITHOUT LEAVING YOUR DESK!

Microsoft recognizes that fragmentation impacts Windows NT performance and recommends Diskeeper to *eliminate* fragmentation as a performance issue.

Windows NT starts fragmenting the moment it is installed, and due to its speed and compression features, it creates staggering amounts of fragmentation. Application load times increase. Users lose time and become frustrated.

Only Diskeeper allows you to control all the defragmentation on all the drives throughout your network right from your administrative console. Your time is valuable. Running around to each workstation to run a defragmenter is out of the question. So is giving users administrative privileges to handle it themselves.

Only Diskeeper, the fully automatic network defragmenter, brings you the power and functionality of a real corporate solution with "Set It and Forget It"® ease.





"Diskeeper will make the System Administrator's life much, much easier."
–Marshall Goldberg, MICROSOFT

ORDER RISK FREE TODAY!

For best price, call your local Reseller or call

1-888-GET-DKNT

4 3 8 - 3 5 6 8

Suggested Retail Price: Workstation version $75.00 Server version $399.00

Designed for Microsoft® BackOffice™

Microsoft Windows Compatible

BEST OF LAN TIMES 1996

Win 100 Windows Magazine 1997

Executive Software
www.execsoft.com

Windows Magazine 1997 Recommended

FREE TRIAL DISKEEPER SERVER AND WORKSTATION

Diskeeper version 2.0: automatic, full scheduling and complete network controls. The only network defragmenter on the market. Download this 30-day trial now.

www.diskeeper.com

© 1997 Executive Software. All rights reserved. *DISKEEPER* and Set It and Forget It are registered trademarks owned by Executive Software. Windows NT and the BackOffice logo are registered trademarks of Microsoft Corporation.

Circle 161 on reader service card.

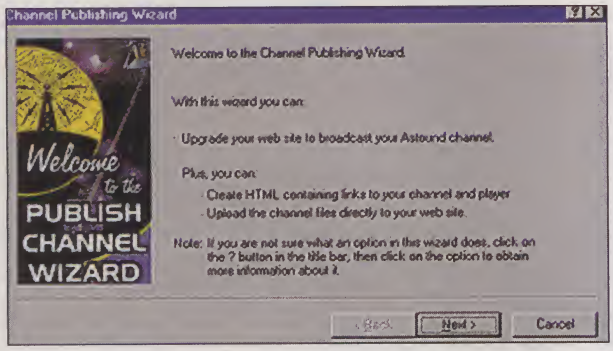
INTERNET SUITE

WebCast

How do you build your own push channel without spending a fortune and hiring a half-dozen engineers? Check out Astound WebCast.

Similar to Astound's presentation-creation package, WebCast is a suite of products for creating rich multimedia content for push channels across the Internet or an intranet. There's also WebCast Professional ($895) and WebCast Enterprise, due out later this year. All three packages include WebCast Studio for creating multimedia push content and WebCast Live Player for viewing the content.

If you're comfortable using a presentation or multimedia creation tool, you'll be comfortable using WebCast Studio. It includes the features you need to design a compelling channel, including path-based animation, interactivity, and integrated audio displayed in a time line. You can also create content from scratch and import other elements, such as sound files.



WebCast also includes a feature called ChannelAgents, which contains user-defined rules that let you extract content from HTML pages and put them into broadcast channels. Place this content in Studio templates and display it via the Live Player. Unlike competing systems from PointCast and BackWeb, WebCast doesn't require special server software to deliver content—it works with any HTTP server. Content can be delivered via Marimba Castanet, Microsoft ActiveDesktop, Netscape Netcaster, or Internet protocol multicasting. For only $195, WebCast is a good way to push your message to the masses.

RICH SCHWERIN

FILEBOX

WebCast

Pros: No special server requirement; friendly interface for creating your own content.

Cons: Embedded advertising for Astound in the Personal version; could use a little more multimedia dazzle.

Verdict: Push your message to the masses inexpensively via the Web.

$195 est. street price
Astound
(415) 845-6200
Reader Service No. 773

ACTION GAME

Outlaws

Ah, the Old West. Streets paved in mud, a saloon on every corner, a six-shooter in every holster. What better setting for a 3-D action game? Imagine Duke Nukem in a cowboy hat and you have the gist of Outlaws, LucasArts' explosive ode to the spaghetti western.

Heavier on plot than most 3-D shooters, Outlaws casts you as retired marshal James Anderson. In the gut-wrenching opening sequence, a crooked land developer murders your wife and kidnaps your daughter, all because you won't sell your ranch. Cliché? Maybe, but at least there's a motive behind your killing spree.



As you blast your way from town to town, you'll find that the bad guys shoot a lot straighter than in the movies. Just make sure you remember to reload. The last thing you want to hear during a showdown is the *click-click* of an empty chamber.

Outlaws has a corral of multiplayer options. You can form a posse with up to seven other players on a LAN, or hop into Microsoft's Internet Gaming Zone for free online play.

Great music and sound effects help compensate for Outlaws' somewhat dated graphics, which won't win any praise from Quake fans. Nevertheless, this superbly crafted game will delight anyone who longs to swagger in John Wayne's boots.

RICK BROIDA

FILEBOX

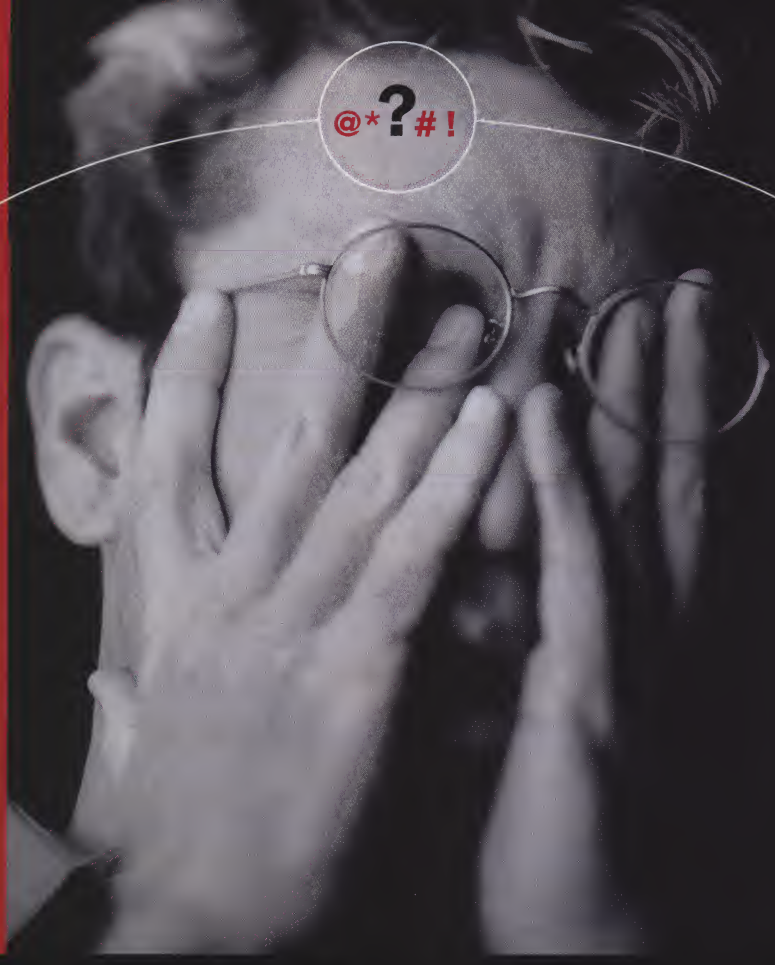
Outlaws

Pros: Tougher than most 3-D shooters; loads of multiplayer options, including free Internet play; there's a plot!

Cons: The graphics aren't exactly state-of-the-art.

Verdict: A challenging game that would do Sergio Leone and Clint Eastwood proud.

$50 est. street price
LucasArts Entertainment
(415) 472-3400
Reader Service No. 774



nicrosoft
ffice 97

everything else

where can't you go today?

Way to go Microsoft! Office 97 is packed with hot new features that make it number one. But those same features make Office 97 file formats incompatible with previous versions of Office. Or with just about anything else for that matter.
Is this a dead end or what?

Conversions Plus to the rescue.

Just in the nick of time, there's new **Conversions Plus® 4.0** to take care of all your Office 97 file conversion needs. From DataViz, the file compatibility experts. Loaded with over 1,000 file translation combinations, **Conversions Plus** translates hundreds of word processing, spreadsheet, graphic and database file formats. Quickly and accurately. Between many different Windows programs or between Windows and Macintosh. New **version 4.0** also includes **e-ttachment Opener™**, an amazing program which converts garbled e-mail attachments into their original file formats. And **MacOpener®**, a nifty utility for reading and writing Macintosh disks on your PC.
How's that for a set of tools to get you where you want to go. Today.



DATAVIZ®

For details, call ***1.800.270.0030 ext.115*** *or visit our web site at http://www.dataviz.com/CPW4*

And find out for yourself that with DataViz, there are no dead ends.

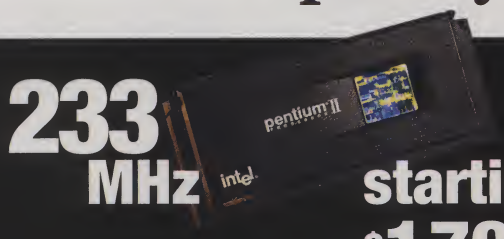
Runs on Windows 3.1, Windows 95 and Windows NT.

Circle 155 on reader service card.

Available at these locations. COMPUSA THE COMPUTER SUPERSTORE EGGHEAD SOFTWARE MICRO CENTER

All product names are trademarks of their respective holders.

The power you've been waiting for at a price you've only dreamed of.



233 MHz **starting at $1,795**

The ALR Optima 2

You've waited for the power of the Pentium® Pro processor. You've waited for the enhanced multimedia performance of MMX™ technology. Your wait is over.

Introducing the ALR Optima2. Powered by Intel's® Pentium® II processor, ALR's Optima2 delivers both Pentium Pro power and MMX technology, bringing advanced desktop computing to new heights. Plus with integrated audio, 64-bit video standard, the ALR's Optima2 is ready to take on the latest in business multimedia applications... from international video conferencing to full-blown multimedia sales presentations.

To learn more about the Optima2 or any member of ALR's Optima Series... the series that redefined PCs with affordable performance and unprecedented service and support, please call ALRs toll-free number today.





Get Connected! New from ALR... Autobahn ISDN Routers now available for under $650. call 1-888-ALR-ISDN

The Optima Series of desktop, slimline, and mini tower systems are designed with the latest in Pentium® Pro, Pentium®, and MMX™ technology. We've added 64-bit or 64-bit 3D graphics. And some models even feature integrated audio and USB technology.

1-800-444-4ALR

http://www.alr.com

5 YEAR 36 MONTH warranty

ALR®

Advanced Logic Research, Inc.

Monitors sold separately. ALR is on the Internet *CompuServe* - **GO ALRINC.** *& America Online* - **Keyword ALR** Advanced Logic Research, Inc. 9401 Jeronimo, Irvine, CA 92718 (714)581-6770 FAX (714) 581-9240. Prices, configurations and specifications subject to change without notice. Systems shown with optional equipment. Pricing based on U.S. dollars. ALR is a registered trademark of Advanced Logic Research, Inc. Pentium logo and Intel Inside logos are trademarks of Intel Corporation. All other brand and product names are trademarks or registered trademarks of their respective owners. © 1997 by ALR

Circle 196 on reader service card.

INTRODUCING THE WORLD'S FIRST 19" MONITOR.

18" VIEWABLE IMAGE SIZE



A breakthrough from Hitachi.

It's not just a new monitor size. It's new display technology that's got everything you ever wanted in a big screen monitor — better performance, smaller footprint, even the perfect price.

	HITACHI ELITE 751	SONY 20SEII
TUBE SIZE	19"	20"
PITCH	0.22 (H) 0.14(V)	0.25
MAX. REFRESH @ 1600 x 1200	75 Hz	75 Hz
SUGGESTED RETAIL	$1,149	$2,000

THE SONY IS AN INCH BIGGER BUT COSTS 74% MORE.

Get similar savings over other high-end 20 and 21 inch monitors as well.

The performance of the best 21" monitor.

The image quality of the new 19" SuperScan Elite 751 is every bit as good as the best 21" monitor — and in some ways better. For example, its focus is a full 30% sharper than the previous state-of-the-art. Plus it delivers brighter, richer color and improved contrast at the same time.

It's also one of the few monitors of any size that gives you *genuine* 1600 x 1200 resolution — not a simulation. And one of fewer still that does it flicker-free to the VESA recommended 75 Hz refresh rate.

The new tube with multi-step dynamic focus and auto-astigmatism correction is also flatter than many CRTs so it displays a more accurate image with less distortion, even at screen edges and in the corners.

MONITOR	TUBE SIZE (Viewable size)	PITCH (mm)	1600 HORIZONTAL PIXELS?
NEC P750	17" (15.6")	0.25 mask	NO
SONY 17SEII	17" (16.0")	0.25 AG	NO
HITACHI ELITE 751	19"(18.0")	0.22 horiz.	YES (1672)
SONY 20SFII	20"(19.1")	0.30 AG	NO
VIEWSONIC GT800	20"(19.1")	0.30 AG	NO
MITSUBISHI 91TXM	21"(19.7")	0.28 AG	NO

Beware of monitors that claim 1600 x 1200 but lack a tube that can resolve 1600 horizontal pixels. Compare screens at 1600 x 1200 before you buy.

The footprint of a 17" monitor.

Look at the footprint and you're in for another surprise. The same technology that made our tube better also made it shallower — just 18.1". So it fits on narrower work surfaces.

And it's priced at just $1,149 (SRP*)

There's one more bonus to our new 19" tube technology. It's a lot less expensive to make so it goes for hundreds less than a comparable 20" or 21" monitor.

So if you want the resolution of a big screen monitor without the bulk and price of a conventional 20 or 21, you've got to see the new Elite 751. Call for details and dealers near you. **800 441-4832.**



SuperScan
An advantage you can clearly see.

HITACHI

NSA 200 Lowder Brook Drive, Westwood, MA 02090 TEL: 800 441-4832. Faxback: 800 555-8552. www.nsa-hitachi.com
*SRP — Suggested Retail Price

Circle 138 on reader service card.

Create

DAZZLING

EFFECTIVE *intriguing* **Impressive**

FLASHY

STUNNING

DETAILED

VRML Images

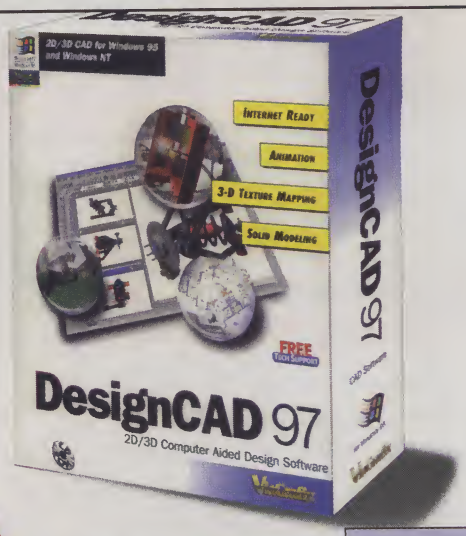


with DesignCAD 97

2D/3D CAD System for Windows 95 or Windows NT

DesignCAD 97 makes .jpg images and 3D VRML files for use on your web page!

Your Creativity is the only limit.



INTERNET READY
- Output JPG, TIF, and TGA files.
- Create 3D VRML files.
- E-mail directly from DesignCAD.

ANIMATION AND PRESENTATION
- True 3D texture mapping.
- Great animation with AVI support.
- New anti-aliasing.

SMART EDITING
- Dozens of innovative editing features to enhance your drawings.

3D SOLID MODELING
- Create virtually any 3D surface with surface construction tools.
- Boolean operations allow precise solid additions, subtractions.

CUSTOMIZATION
- Full keystroke and screen customization.
- OLE automation with Visual Basic and C++.

MORE . . .
- Direct scanner support with bitmap to vector conversion.
- Embed designs into other documents with Windows Clipboard and OLE-2 options.
- Read and save DWG, DXF, IGES, and HPGL file formats.
- DesignCAD Developer's Kit for creating special features.

30 DAY MONEY BACK GUARANTEE

FREE TECH SUPPORT

only $499*

*Competitive upgrade $299

CALL FOR FREE DEMO CD

Call, fax, or e-mail your order to:

800/233-3223

ViaGrafix

One American Way, Pryor, OK 74361

918/825-7555
fax: 918/825-6359
www.viagrafix.com
sales@viagrafix.com

H-2012-7

Circle 106 on reader service card.

We know all about Dell, Gateway and Micron.



We replace them all the time.

Sys kicked butt and took names in performance tests in *PC Magazine, Computer Shopper* and on c|net. We have solutions for every user and budget. State-of-the-art 266MHz Pentium® II processor-based systems to 133MHz Pentium processor-based Value Editions. Custom-built from an amazing array of options—our place to yours—5 to 7 working days. Sys service sizzles too, with 24/7 phone support, first year on-site service, extended warranty options and money-back guarantee. No wonder thousands of canny users (NASA, JPL, MIT, etc.) have already done something brilliant. Bought a computer from Sys instead of the other guys.



Nothing responds like Sys.

SYS VALUE EDITION systems BASE PRICE: $1,234
SYS PERFORMANCE systems BASE PRICE: $1,796
SYS PERFORMANCE systems (Pentium® Pro processor) BASE PRICE: $2,396
SYS WORKSTATION BASE PRICE: $5,995

800-613-9963
http://www.systechnology.com

Circle 314 on reader service card.

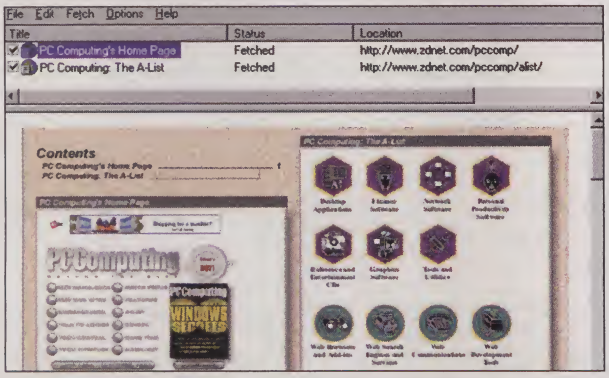
 More reviews on page 330

PRINTING UTILITY

WebRecord

Sure, your favorite Web site looks great onscreen. But send it to your printer, and the results disappoint you with poor formatting, missing elements, and wasted paper. While both Microsoft Internet Explorer and Netscape Navigator are great for browsing sites, neither does a great job of printing.

The answer? Canon Computer Systems' $30 WebRecord, an Internet print utility designed to work with Canon's line of BubbleJet printers and either Microsoft Internet Explorer or Netscape Navigator. It also works—albeit slowly—with any PostScript printer.



WebRecord works in tandem with your browser to fetch and format sites for optimal Internet printing. You decide how much of a site to retrieve. When you're ready to print, WebRecord automatically includes a basic table of contents, footnotes, an index of hyperlinks, and a variety of custom formats. And with WebRecord you can resize Web pages so that you have four or more on one page.

Unfortunately, WebRecord can't print Java elements such as graphics and animations (the current Java standard doesn't support any type of printing). Also, performance was sluggish in our tests, although Canon promises faster performance with a BubbleJet printer. Even so, if you print a lot from the Web, WebRecord is a good buy. **RICH SCHWERIN**

FILEBOX

WebRecord

Pros: Versatile, custom formatting options; batch processing; prints table of contents and hyperlink footnotes automatically.

Cons: Slow performance; Windows 95 only.

Verdict: Format any Web site to print the way you want it to.

$30 est. street price
Canon Computer Systems
(800) 848-4123, (714) 438-3000
Reader Service No. 779

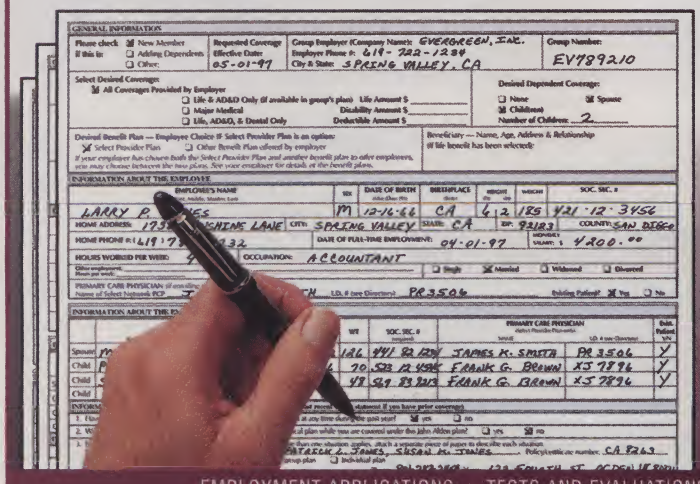
SURVEYS • SALES ORDERS • TIME CARDS • REGISTRATIONS • INSURANCE CLAIMS • PATIENT HISTORY • CREDIT APPLICATIONS

TELEFORM — AUTOMATED DATA ENTRY

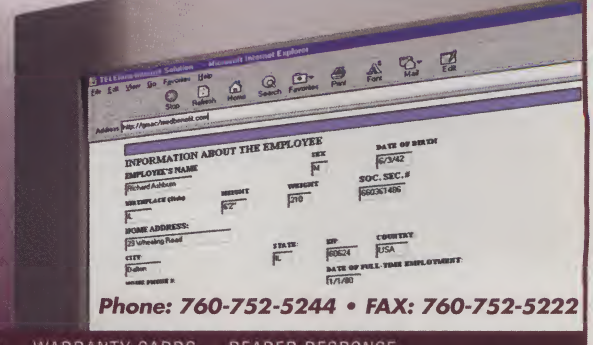
Any Form...Every Format!

If your company enters information into a database, you need **TELE***form*, the data collection solution. **TELE***form* reads hand print from any form. It reads any data type from faxed, scanned, or even Internet-based forms. Create a form, print it, fax it, post it on your Web site. One form in any format, paper or electronic. Thousands of companies use **TELE***form* to reduce their dependence on manual data entry.

Call today to find out more about TELEform, your Total Data Collection solution.
888-254-8917
www.cardiffsw.com



Cardiff Software



Phone: 760-752-5244 • FAX: 760-752-5222

EMPLOYMENT APPLICATIONS • TESTS AND EVALUATIONS • WARRANTY CARDS • READER RESPONSE

Circle 303 on reader service card.

Software Product of the Year.

WIN 100 WINDOWS MAGAZINE 1997

Windows Magazine
Summer 1997

The best remote access software you can buy for your PC, anywhere.

If you're already one of the millions of loyal LapLink® users, you don't need a magazine to tell you that it's the perfect link to the desktop or the network.

But if you're still undecided, you should know that LapLink has racked up more prestigious industry awards (twenty-nine of 'em, at last count) than every other remote access software package. Combined.

And now that LapLink is available for Windows® NT, you have every reason in the world to request one of our free, fully-functional trial packs.

Pick up the phone and dial 800-487-4313. Or visit our website at **www.laplink.com/pcc.**

It just might be the best move you'll make this year.

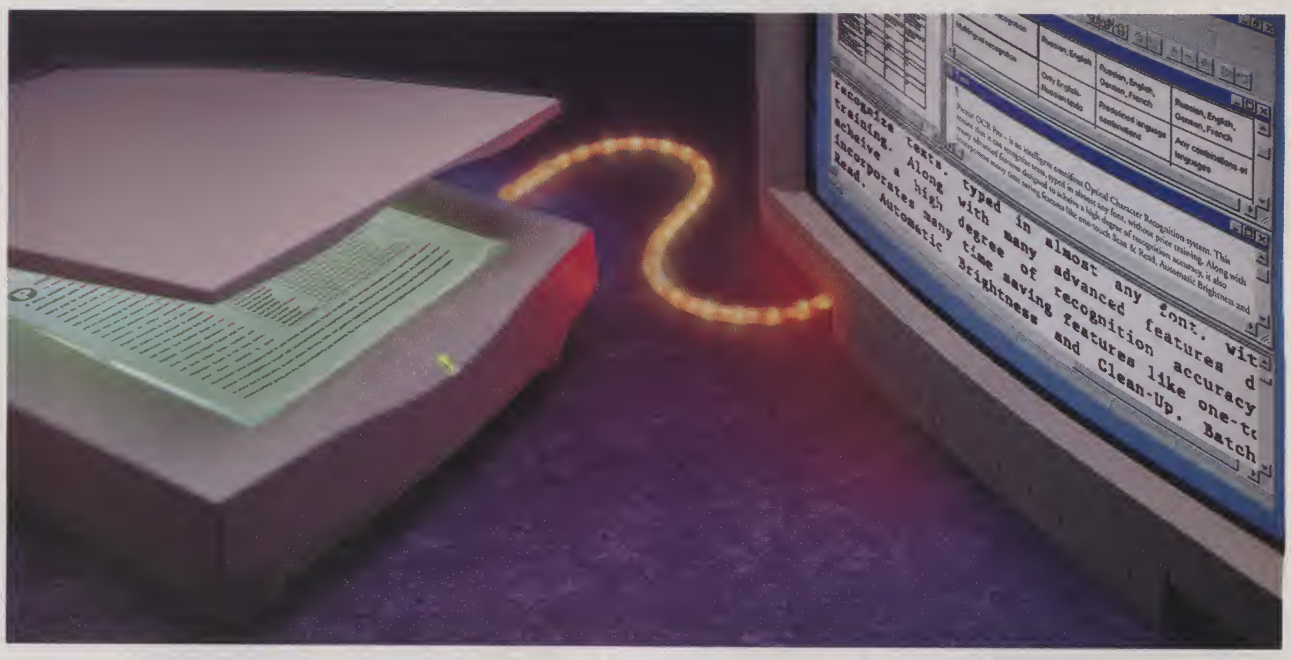
TRAVELING SOFTWARE



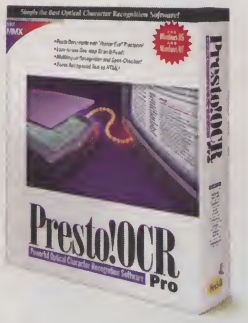
©1997 Traveling Software, Inc. LapLink is a registered trademark of Traveling Software.

Circle 234 on reader service card.

Presto! OCR Pro is "simply the best OCR!"



dare to compare it (more expensive) OCR with other Programs!



Presto! OCR Pro is loaded with **advanced** character recognition features, allowing it to scan and recognize any document, article or letter **easily & accurately**. It even retains the text, table and graphics attributes of your original so you can use the OCR'd information with **no reformatting!** giving you the **high productivity** you demand. We dare you to compare Presto! OCR Pro with your current OCR program. At $49.95*, why pay more for less?

WITH ONE-TOUCH OCR Scan&Read

FOR MORE INFORMATION, CALL:
1-888-252-4321
OR VISIT US ON THE INTERNET AT:
http://www.newsoftinc.com

NewSoft™

COMPETITIVE UPGRADE PRICE:
$49.95*
(FULL PACKAGE PRICE: $99.95)

(Outside the U.S. please call (510) 445-8600) ©1997 NewSoft, Inc. Presto! OCR Pro and the NewSoft logo are trademarks of NewSoft, Inc. All other product names are trademarks of their respective owners. *There is a non-refundable $8 USD or $18 (Int'l) shipping and handling charge. Please have your Visa, Mastercard or American Express card ready when you call. CD-ROM format. Developed with Fine Reader Technology by BIT Software, Inc. Presto! OCR Pro has an MSRP of $179.95. Prices and information subject to change without notice.

Circle 129 on reader service card.



Leave it to the

COOLEST PROJECTOR

to keep you from sweating.



THE NEW LITEPRO® 720.
A PROJECTOR THAT'S INCREDIBLY ADVANCED, YET AMAZINGLY EASY TO USE.
TRY IT 3 DAYS FOR THE PRICE OF 1:
1-800-294-6400 or www.infocus.com/pcc

This projector is cool. Literally. It all starts with the efficient optical system. It delivers intense, saturated colors with a lower wattage lamp. Which requires a smaller power supply. Which means it's lighter, quieter, and, of course, cooler. And since industry-leading In Focus® projectors are the easiest to use, you'll be cooler, too.

TRUE 800 x 600 SVGA RESOLUTION
POLYSILICON LCDs
450 LUMENS
ONLY 12 POUNDS
THE QUIETEST — 41dB

InFocus®

Phone (503) 685-8888 Fax (503) 685-8631. In Europe: Phone (31) 23 5623200 Fax (31) 23 5624388. PCC ©1997 In Focus Systems, Inc. In Focus and LitePro are registered trademarks of In Focus Systems, Inc. Image no. 0511097 ©1995 PhotoDisc, Inc.

Circle 240 on reader service card.

See new networking standards in motion.

GENERAL CONFERENCE • SECURITY SYMPOSIUM • COMMUNITY



TUTORIALS • WORKSHOPS • EXHIBITION

World's #1 Networking Forum

Step inside NetWorld+Interop—the world's largest interactive learning center for mission-critical networking solutions. In only days you can learn how to deploy the most advanced networking, Internet and intranet technologies on the planet. NetWorld+Interop has the expert knowledge and training you need to unleash a new generation of cutting-edge applications. Ones that give your organization the agility, power and flexibility to move forward—faster.

Atlanta, Georgia
Georgia World Congress Center
October 6–10, 1997

For Registration/Information:
1-800-944-4629
Int'l 415-372-7090
www.interop.com

SOFTBANKforums
NETWORLD +INTEROP

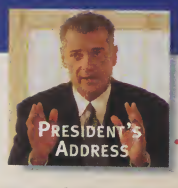
Tomorrow's Technologies In Action

See and test the technologies that will run your enterprise 2 years from now. NetWorld+Interop builds and manages the most diverse, enterprise-class, multivendor network in the world: the InteropNet™. Connecting over 600 top vendors to the Internet, the InteropNet lets you evaluate the newest standards in networking, live on the exhibition floor. This is your one chance to see emerging technologies at work, so do not get caught standing still. Pre-register to attend now.

1997 SOFTBANK Forums. Interop is a registered trademark and InteropNet is a trademark of SOFTBANK Forums. NetWorld is a service mark of Novell, Inc. All other names are the property of their respective holders. BEI7ESPA

PC Video Made Easy!

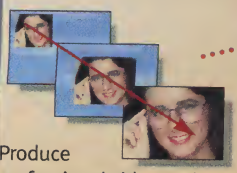
Revolutionary Video Publishing



Create professional text animations



Add your own transition effects



Produce professional video and motion animations



Intuitive easy-to-use interface lets you produce AVI, QuickTime, or MPEG movies



Multimedia library includes animations, videos, music, sound effects, photos, textures and more



You can chroma key video sequences together



Add audio studio effects including narrations, music and sound effects



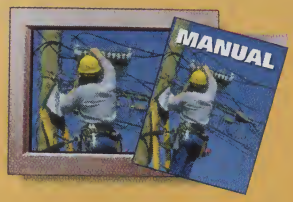
Edit your videos

MME
MGI MPEG ENCODER

BONUS! Produce MPEG movies with MGI VideoWave's built-in MPEG software encoder.



Add your own video effects



You can capture photo frames

PC MAGAZINE EDITORS' CHOICE
July 1997
MGI VideoWave

Intel MMX™

BEST OF BYTE
COMDEX / Fall '96
Finalist



MGI VideoWave™

For more information, contact MGI Software Corp. at 1-888-MGI-SOFT or visit www.mgisoft.com (Priority Code:vw108) **Available at:**

COMPUSA · COMPUTER CITY · EGGHEAD · MICRO CENTER · Fry's ELECTRONICS · BEST BUY

indeo INTEL VIDEO TECHNOLOGY

Windows® 95 ready-to-run. †Estimated street price in U.S. dollars. © 1989-1997 MGI Software Corp. all rights reserved. MGI and MGI VideoWave are trademarks or registered trademarks of MGI Software Corp. Indeo is a trademark of Intel Corporation. All products mentioned are trademarks or registered trademarks of their respective companies.

Circle 230 on reader service card.

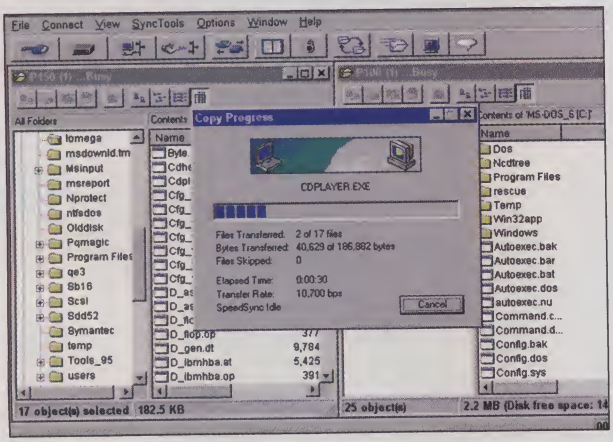
MGI SOFTWARE®

REMOTE CONTROL

LapLink for Windows NT

These days, working in just one location is a luxury not many of us have. On any given day, you may be working out of a hotel room, on a plane, or in a home office. Of course Murphy's Law dictates that the information and files you really need are somewhere you're not. If you're on the move, LapLink for Windows NT (which includes a Windows 95 version) makes working on the road less painful.

While Microsoft's Dial-Up Networking and FTP clients are adequate for providing remote file access, they lack the synchronization features of LapLink. Using the new Xchange Agent feature, you can synchronize directories with just one mouse click. LapLink also boasts a wider range of connectivity protocols—from TCP/IP over the Internet, to IPX, to direct parallel cable. Connecting a notebook to a desktop computer has never been easier.



LapLink's remote-control feature works even over a 28.8Kbps modem. Connecting to a remote computer is fast thanks to LapLink's screen-caching feature. And by saving static screen objects to the local hard disk, LapLink doesn't have to download the display every time an event updates the screen.

LapLink is a must-have for any notebook user on the go. And desktop users who compute at home will benefit from the product's rich feature set and ease of use. JONATHAN J. CHAU

FILEBOX

LapLink for Windows NT

Pros: Easy to set up; file transfers are speedy via modem connection and blazingly fast over a network.

Cons: Lacks dedicated support for handheld devices.

Verdict: The most powerful and refined remote-control and file-transfer application.

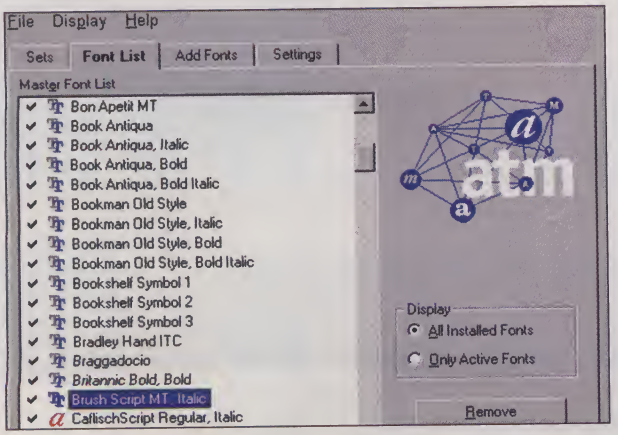
$150 est. street price
Traveling Software
(800) 843-9397, (425) 483-8088
Reader Service No. 780

FONT MANAGEMENT

Adobe Type Manager Deluxe 4.0

Drowning in a sea of Macintoshes that swear by Adobe's Type 1 fonts, while your NT workstations are happy with the standard Windows TrueType fonts? Adobe Type Manager Deluxe (ATM Deluxe) 4.0 for Windows NT might be the life preserver you need to stay afloat.

One of the problems with document distribution is that the fonts used to create a document might not be on another user's computer. ATM Deluxe makes it easy to distribute fonts by organizing them into sets. The program also improves font displays by applying anti-aliasing techniques, which smooth the jagged edges of fonts to give your documents a more polished look.



Oddly enough, ATM Deluxe also improves system performance. On a typical Windows NT system, every available font is always loaded, consuming precious RAM that could be used for other functions. With ATM Deluxe, each font has two modes: activated and deactivated. Only activated fonts consume system RAM; deactivated fonts stay dormant until they're needed (and so they aren't available to applications until you activate them).

For publishing professionals using NT workstations and sharing documents with Macintoshes, Adobe Type Manager Deluxe 4.0 contains enough new and useful features to make it a worthwhile upgrade. JONATHAN J. CHAU

FILEBOX

Adobe Type Manager Deluxe 4.0 for Windows NT

Pros: Makes organizing and sharing fonts a snap.

Cons: Deactivated fonts aren't available to your apps.

Verdict: A manageable way to juggle fonts between NT and Macintosh users.

$70 est. street price
Adobe Systems
(800) 822-4451, (408) 536-6000
Reader Service No. 781

PCComputing® Professional Discount Card

Return this card now to qualify for special Professional Discount Rates on PC Computing -- up to 75% off the cover price. You also get our exclusive Gaming MegaPac CD-ROM, loaded with fantasy/adventure games, cool simulators and much more -- FREE with your paid subscription.

Annual Newsstand Price:
$59.88
Regular Subscription Price:
$24.97
Your Special One-Year Rate:
$16.97

☐ One year/12 issues $16.97 — **SAVE 72%**
☐ Two years/24 issues $29.97 — **SAVE 75%**

FREE CD-ROM!



Name _____ (Please Print) 4SFB2

Company _____

Address _____

City _____ State _____ Zip _____

☐ Payment enclosed. ☐ Bill me.

Annual newsstand price $59.88. Non-U.S. add US$16 per year; Canadian GST included.

Check out our Web site —
http://www.pccomputing.com

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST-CLASS MAIL PERMIT NO. 66 BOULDER, CO

POSTAGE WILL BE PAID BY ADDRESSEE

PCComputing®

PO Box 50253
Boulder CO 80323-0253

What 22 years in the monitor business gets you.

Premium Aperture Grille Monitor *technology. At a shadow mask monitor price.*

0.25mm Dot Pitch *for a brighter, clearer, tighter image.*

Full ***16.0" viewing area*** *shows more of what's on your screen*

Sharp, crisp, flicker- free ***77Hz resolution at 1280 x 1024***



Three-Year Warranty *for CRT parts & labor, of course.*

One-touch On-Screen Display *with digital controls.*

Used to be, there were two ways to get the sharper picture, richer colors and enhanced clarity of Aperture Grille technology. You could buy a high-end professional monitor from a company like NEC, Sony or Mitsubishi, with all the high-end features and a price to match. Or you could spend a lot less. And end up with a stripped-down imitation. Fortunately, that was then.

Now, of course, there's TeleVideo, the company that's been pioneering high-end technology for ordinary folks and quietly selling high-performance monitors at very reasonable prices since 1975. We've got a complete line of large-screen Aperture Grille monitors, including the flagship SVP260 pictured above. All with features comparable to (or even superior to) the Big Names, but at prices you can live with.

So how do we do it? Call **1-800-835-3228** to find out. Or visit us at **www.televideoinc.com**. But for now, let's just say that when you've been in the monitor business since bell-bottoms were cool, you learn a few things.

TeleVideo: good monitors, reasonable prices. (See for yourself.)

	Model	Aperture Grille (mm)	Refresh Rate (Hz) @1600x1200	H-Scan (KHZ)	MSRP ($)
17"*	**TeleVideo SVP260**	**0.25**	**66**	**24-82**	**779**
	Mitsubishi 87TXM	0.25	66	30-86	829
	Sony 17sell	0.25	60	30-85	899
	ViewSonic PT770	0.25	66	24-82	799
17"*	**TeleVideo SVP270**	**0.25**	**75**	**30-95**	**889**
	Eizo-Nano TX-C7S	0.25	73	30-92	1125
	Nokia 447Xi	0.25	n/a	31-92	899
	Sony 17sell	0.25	60	30-85	899
21"*	**TeleVideo SVP350**	**0.28**	**85**	**30-107**	**1649**
	Mitsubishi 91TXM	0.28	75	30-95	1649
	NEC P1150	0.28	75	31-94	1599
	IIYAMA Pro 21	0.30	75	30-94	1699

***Diagonal viewable area may vary.**

TeleVideo®
Over 20 Years of Display Technology

©1997 TeleVideo, Inc. The TeleVideo name and logo are registered trademarks and SuperView is a trademark of TeleVideo. All other names are the service mark, trademark or registered trademarks of their respective owners. TeleVideo reserves the right to change specifications without notice.

Circle 223 on reader service card.



Yes. Over. Finished. Kaput.

'Cause now there's new **NUTS&BOLTS**. *When it comes to saving your system, it beats Norton cold.*



Simply put, **NUTS&BOLTS** *is a package of brilliant, virtually automatic utilities that* **PREVENT** *crashes,* **OPTIMIZE** *your hard drive,* **MAXIMIZE** *performance,* **ELIMINATE** *conflicts,* **REPAIR** *damage,* **SECURE** *files,* **SHRED** *sensitive stuff,* **ALERT** *you to potential problems,* **RESCUE** *lost files,* **DIAGNOSE** *your system,* **CUSTOMIZE** *your Windows,* **INCREASE** *speed,* **FIX** *glitches, and* **CHECK** *program compatibility.*

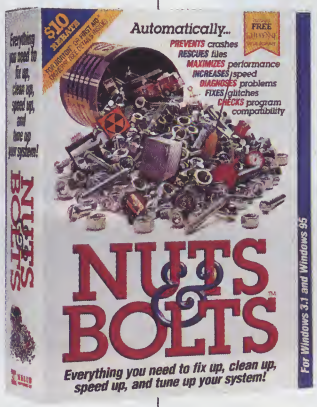


Like a nerd in a box

As if that ain't enough, **NUTS&BOLTS** *does all this almost invisibly and with very little involvement on your part (Y'hear Norton? You can be a dummy and it'll still do its job!)*



NUTS&BOLTS *is like having your own resident nerd – only better. 'Cause it's there before you need it and whenever you need it. And it costs about fifty bucks. Yeah, $50! (And unlike a nerd, it doesn't wheeze or giggle.)*



Guaranteed...

NUTS&BOLTS *is guaranteed. Uh-huh! If you don't like it, return within 60 days and you'll get your money back.*



Whaddya got to lose? Without **NUTS&BOLTS** *only time, money, your job, your diploma, your tax return, the great American novel, or your surefire screenplay. (But then, you're too smart to live without* **NUTS&BOLTS** *now that we set you straight.)*



So put this magazine down this instant and get your **NUTS&BOLTS**. *It'll save you over and over and over again.*

Good-Bye, Norton.

***Great Buy,* NUTS&BOLTS.**

PCComputing ★★★★★

Windows Sources 1997 EXPERTS' CHOICE

HOME OFFICE COMPUTING BEST BUY May 1997

1-800-451-0551

NUTS & BOLTS *is another amazing, invisible, affordable, lifesaving product from the wonderful brains at HELIX.*

HELIX SOFTWARE CO.

Internet: http://www.helixsoftware.com
Phone: 718-392-3100

Feature	NUTS & BOLTS	Symantec Norton Utilities™	Cybermedia First Aid 97™	QDEK Essential Utilities™
Easy to use Central Interface with Integrated look and feel	YES	—	YES	—
Repairs & Recovers Damaged Files and Hard Drives	YES	YES	—	—
Automated Clean & Repair Windows Registry	YES	Minimal	YES	YES
Rebuild & Optimize Registry for maximum performance	YES	—	—	—
Optimize Hard Drive (N&B Disk Tune is up to 5x faster)	YES	YES	—	—
Clean up Hard Drive	YES	YES	—	YES
Provides Detailed System Info	YES	YES	—	—
Emergency Rescue & Recovery	YES	YES	Minimal	Minimal
Hardware Diagnostics	YES	DOS only	—	—
System Monitor	YES	YES	—	—
Crash Recovery	YES	YES	YES	YES
Crash Protection	YES	—	—	—
Easy System Configuration	YES	YES	—	—
Zip/Unzip files	YES	—	—	YES
Zip Integrated with file and Hard Drive Cleanup	YES	—	—	—
High Security Encryption	YES	—	—	—
Security Integrated with File Compression	YES	—	—	—
Secure Erase Feature	YES	—	—	—
Self Decrypting Files for easy e-mailing	YES	—	—	—

"Move Over, Norton, Enter Nuts & Bolts"

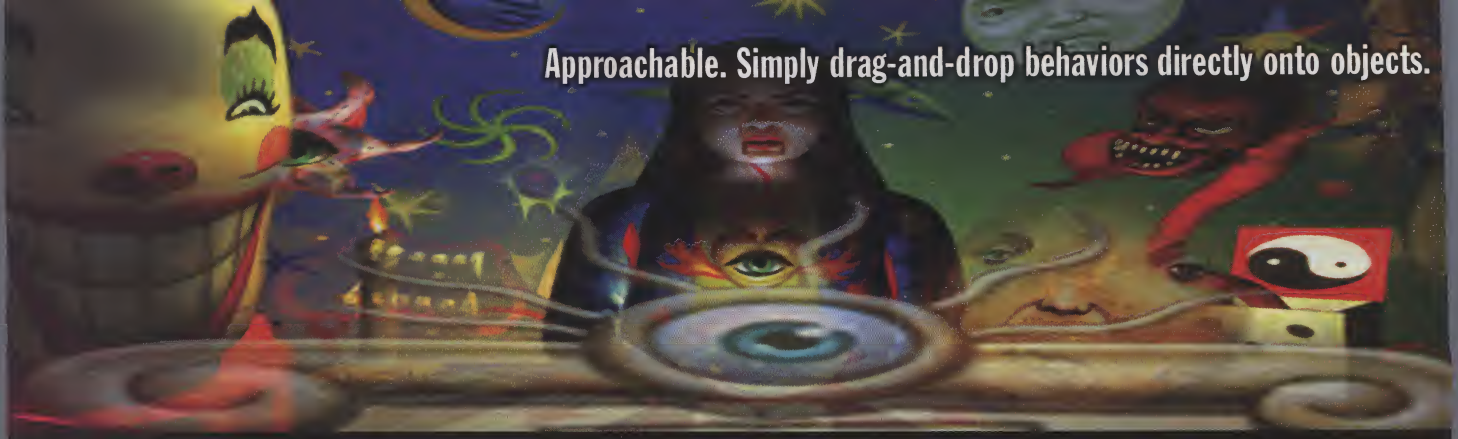
– Windows Sources, June 1997

"Tops Norton's Utilities"
– PC Magazine, June 24, 1997

"A winning program"
– PC World, July 1997

©1997 Helix Software Co. All rights reserved. Nuts & Bolts and Disk Tune are trademarks of Helix Software Co. All other trademarks are held by their respective companies.

Circle 379 on reader service card.



The Web

Powerful. Streaming Shockwave™ movies play as they download.



can't make a move without it.



Director® 6.0.1 now available.

Shocking. Shocked CDs link and update from the Web.



To order or for more info:
1-800-945-9290 • http://special.macromedia.com/d6

© 1997 Macromedia, Inc. All rights reserved. Macromedia, the Macromedia logo, Director, and Shockwave are trademarks or registered trademarks of Macromedia, Inc.
"9" by Tribeca Interactive. "Urban Feedback" by Research Studios.

macromedia®

Circle 263 on reader service card.

Direct TO YOU

Advertisers' Index

Company	Phone	Page No.	Reader Service No.	Web Site
CompUSA	(800) 332-4471	337-341	193	www.compusa.com
Computer Discount Warehouse	(800) 886-4239	350-351	146	www.cdw.com/pcc
Dell Factory Outlet	(888) 798-7567	345	–	www.dell.com/buydell
L.A. Trade	(800) 433-3726	336	–	www.4latrade.com
Microwarehouse	(800) 344-9309	342-343	361	www.warehouse.com
NRI Schools	(800) 321-4634 ext. 2724	347-349	–	www.mhcec.com
PCs Compleat	(800) 332-4471	337-341	193	www.compusa.com
Divion Technologies	(800) 582-8803	344	–	www.convergence point.com
International Correspondence Schools	(800) 595-5505	344	–	www.icslearn.com

Don't miss PC Computing's **Guide to the Direct Channel.** You'll uncover all the **best buys** for the most popular hardware and software available.

WE WILL TRY TO MATCH OR BEAT ANY ADVERTISED PRICE. CALL FOR LATEST PRICING!!

WE ACCEPT PO'S FROM QUALIFIED FIRMS

30 DAY* MONEY BACK GUARANTEE

MEMORY

LIFETIME WARRANTY

SECURITY WILL CALL WINDOW NOW OPEN! NO SURCHARGE FOR MC, VISA AE & DISCOVER

HOT BOX SPECIALS

HP 4, 4P, 5P, 6P, 5MP – 2Meg.......................14.00
Panasonic Laser 6500 – 2Meg.......................14.00
HP Deskjet 1200C, LP – 2Meg.......................14.00
Lexmark Optra – 2Meg.......................14.00
1 x 9-80.......................9.00
1 x 9-70.......................12.00
1 x 3-70.......................6.00
1 x 9-60.......................12.00
Compaq Concerto – 8Meg.......................39.00
TI 5000, 5100, 5200 Base – 8Meg.......................29.00

Check our website for additional items not listed in our ad and order through our secure order form!
www.4LATrade.com

72 PIN SIMMS (FPM, EDO)

	60NS	70NS	80NS
256 x 36	14.00	–	
512 x 36	19.00	–	
256 x 32	0.00	–	
512 x 32	10.00	–	
1 x 36 4 mg	32.00	32.00	32.00
2 x 36 8 mg	57.00	57.00	57.00
4 x 36 16 mg	70.00	70.00	70.00
8 x 36 32 mg	150.00	159.00	150.00
16 x 36 64 mg	449.00	449.00	440.00
1 x 32 4 mg	22.00	22.00	22.00
2 x 32 8 mg	42.00	42.00	42.00
4 x 32 16 mg	89.00	89.00	69.00
8 x 32 32 mg	139.00	139.00	130.00
16 x 32 64 mg	410.00	410.00	419.00
1 x 32 4 mg EDO	22.00	22.00	22.00
2 x 32 8 mg EDO	42.00	42.00	42.00
4 x 32 16 mg EDO	68.00	68.00	68.00
8 x 32 32 mg EDO	130.00	130.00	130.00
16x32 64 mg EDO	410.00	410.00	410.00

ECC SIMMS

Pentium Pro 72 Pin (install in pairs) / SIMMS
8Meg ....50.00 64Meg 540.00
16Meg ....100.00 128Meg 1080.00
32Meg 210.00

SIMM MODULES
(Add $5.00 for SIPP)

	60NS	70NS	80NS
1Meg x 3 (3 chip)	11.00	11.00	11.00
1Meg x 9 (9 chip)	17.00	17.00	17.00
4Meg x 3 (3 chip)	24.00	24.00	24.00
4Meg x 9 (9 chip)	20.00	29.00	20.00
16Meg x 9 (9 chip)	119.00	110.00	110.00

DIMMS (168 pin)

INDUSTRY STANDARD DIMMS	16Mg	32Mg	64Mg	128Mg	256Mg
Unbuffered					
3.3V ECC, EDO	119	210	425/499	080	—
3.3V EDO	00	175	344	—	—
5.0V EDO	00	175	344	1231	—
5.0V FPM	119	210	425/499	089	—
Buffered					
3.3V ECC, EDO	110	224	425/499	980	2425
3.3V ECC, FPM	110	224	425/543	1025	2425
5.0V ECC, FPM	110	224	482	990	—

SDRAM – INDUSTRY STANDARD, DELL & GATEWAY		
3.3V SDRAM (2 clock)	*8Meg*	*50.00*
3.3V SDRAM	*16Meg*	*94.00*
3.3V SDRAM	*32Meg*	*170.00*
3.3V SDRAM	*64Meg*	*429.00*
3.3V SDRAM	*128Meg*	*950.00*
3.3V SDRAM	*256Meg*	*1025.00*
APPLE		
1 x 64	8Meg	50.00
2 x 64	16Meg	80.00
4 x 64	32Meg	160.00
8 x 64	64Meg	312.00
16 x 64	128Meg	975.00
DELL, OPTIPLEX, GXPRO 200		
3.3V ECC, EDO	16Meg	110.00
3.3V ECC, EDO	32Meg	249.00
3.3V ECC,EDO, 8/32chip	64Meg	470/845
3.3V ECC, EDO	128Meg	1690.00
DELL POWER EDGE 2100/4100		
3.3V ECC, EDO	16Meg	110.00
3.3V	32Meg	240.00
3.3V, 8/32 chip	64Meg	470/845
3.3V	128Meg	1890.00
3.3V	256Meg	3827.00
MOTOROLA (Apple Compatible)		
3.3V EDO	8Meg	49.00
3.3V EDD	16Meg	99.00
3.3V EDO	32Meg	175.00
3.3V EDO	64Meg	344.00

CACHE MEMORY

- *512K (IBM Part # 92G7336) – $59.00 works with PC700, PC750, Aptiva C+ Series*
- *256K (160 pin) Pipeline Burst Cache Module $22.00 (Coast Celp)*
- *512K (160 pin) Pipeline Burst Cache Module $39.00 (Coast Celp)*
- *256K (160 pin) Async Cache Module – $59.00 compatible with IBM Aptiva A&M Series*
- *256K (160pin) Async Coast Module – $29.00*

	12NS	15NS	20NS	25NS
32Kx8	9.00	4.50	4.25	4.00
64Kx1	–	11.00	–	–
64Kx8	–	15.00 (5V)	–	–
128Kx8	–	29.50	26.00	24.00

Individual D-RAM Chips

FOR IBM & APPLE	40NS	50NS	60NS	70NS	80NS
1Megx1	–	–	5.00	4.00	2.00
1Megx4	–	–	19.00	18.00	17.00
1Megx4 (Zip Pk)	–	–	12.00	11.00	10.00
256x4(Page Dip)	–	–	7.25	6.75	6.50
256x4(Page Zip)	–	–	9.25	9.00	8.95
256x4(Video Zip)	–	–	–	10.95	9.95
256x8(SOJ)	–	–	12.00	11.00	–
256x16 SOJ	34.00	29.00	29.00	19.00	–
256x16 SOJ Edo	–	–	29.00	–	–
256x16 Video Zip	–	–	–	29.00	–

Make Your 486 Run like a Pentium®

Kingston Turbo Chip – 3X Faster, for 486 Based Dx^2, Dx, Sx^2, Sx. . . . . .ONLY $129.00
Out performs Intel overdrive Pentium 83
UP TO 396% PERFORMANCE INCREASE!!

VIDEO MEMORY MODULES

Matrox Millennium	2Meg/4Meg/6Meg WRAM	89/159/229
Matrox Mystique	2Meg SGRAM	59
ATI 3D Pro Turbo	2Meg/4Meg	89, 179
ATI Xclaim 3D	4Meg SGRAM	179
ATI 3D Xpression	2Meg SDRAM	79
Apple PowerMac 4400	2Meg/4Meg	89/139
NEC Powermate Pro 150, 220	2Meg,/6Meg WRAM	129, 259
HP Vectra XV/6, VT/8, VA, XA	2Meg/6Meg WRAM	129, 259
Compaq 1Meg Video 213922-001	1Meg	69
Compaq Deskpro 2000, 4000, 6000	2Meg/6Meg WRAM	129/299

Many More Please Call

GATEWAY MEMORY

Dest. Big Screen D5 – SDRAM	8Meg/16Meg/32Meg/64Meg	59/99/179/429
Dest. Big Screen D8 – EDO (pairs)	4Meg/8Meg/16Meg/32Meg	24/44/68/139
Family PC w/MMX – SDRAM	8Meg/16Meg/32Meg/64Meg	59/99/179/429
G5-166, 200 Prof. System – SDRAM	8Meg/16Meg/32Meg/64Meg	59/99/179/429
G5-166M, 200M MMedia System – SDRAM	8Meg/18Meg/32Meg/64Meg	59/99/179/429
G6-200 Prof. System – SDRAM	16Meg/32Meg	119/219
G6-Prof, M MMedia System – EDO	4Meg/8Meg/16Meg/32Meg	24/44/68/139
Multimedia G-5 Systems – SDRAM	8Meg/16Meg/32Meg/64Meg	59/99/179/429
Prof, P-5 Series – SDram	8Meg/16Meg/32Meg/64Meg	59/99/179/429

We Carry All GATEWAY Memory

NEC MEMORY

Ready 5010, 7010, 7020, 9010, 9022 / Ready 9510, 9520, 9522, 9530, 9532 / Ready 7022 (EDO)
Image P60, P90, D, P100E
(Pairs) 4Meg/8Meg/16Meg/32Meg — 24/42/69/139 — ***We Carry All NEC Memory***

HEWLETT PACKARD MEMORY

Netserver 4/66LC-5/133LC (pairs)	4Meg/8Meg/16Meg/32Meg	29/42/69/139
Netserver LE 486SX33 – 486DX266	4Meg/8Meg/16Meg/32Meg	29/42/69/139
Netserver LH Plus 5/133, 5/186 (EDO, ECC)	16Meg/32Meg/64Meg/128Meg	119/229/499/999
Netserver 4/33LM – 5/100LM (pairs)	4Meg/8Meg/16Meg/32Meg	29/42/69/139
Netserver 5/75LS – 5/133 LS4 (pairs)	4Meg/8Meg/16Meg/32Meg	20/42/69/139
Pavillion 5010-7170 (pairs)	4Meg/8Meg/16Meg/32Meg	29/42/69/139
Vectra 500 (EDD, pairs)	4Meg/8Meg/16Meg/32Meg	29/42/69/139
Vectra VA 6/180, 6/200 (EDD, pairs)	4Meg/8Meg/16Meg/32Meg	29/42/69/139
Vectra VE2 5/75 – 5/133 (EDD, pairs)	4Meg/8Meg/16Meg/32Meg	29/42/89/139
Vectra XA 6/180, 6/200 (EDD, pairs)	4Meg/8Meg/16Meg/32Meg	29/42/69/139
Vectra XM4 Series	4Meg/8Meg/16Meg/32Meg	29/42/69/139

We Carry Memory for ALL Models – Call

We also sell Memory for: DEC, Sun, Zenith, Acer and Epson

NO SURCHARGE FOR MASTERCARD, AMEX, VISA OR DISCOVER. PURCHASE ORDERS ACCEPTED FROM FORTUNE 2000, GOVERNMENT & INSTITUTIONS. California orders add 8.25%sales tax. Returned orders or ordered wrong parts are subject to a 20% restocking fee. We accept international orders shipped via UPS Air, APO, FPO orders welcome. Customers are expected to pay customs and "other" charges if shipped Int'l. All credit card charges verified for fraudulent use. SORRY, NO REFUNDS AFTER 30 DAYS – EXCHANGES ONLY. If you receive defective merchandise we exchange only—no refunds. We accept MC, VISA, Discover, AE, prepaid orders, purchase orders, wire transfer, COD (cashiers check) orders, cash & cashiers checks. Orders shipped by UPS, FEDX must be signed for.
• ALL MANFACTURER PART #'S ARE FOR REFERENCE ONLY • MINIMUM ORDER $40.00 • NO REFUNDS ON SHIPPING.

certain restrictions apply. All prices final on date of sale.

IBM PS/1, PS/2 MEMORY MODULES

Aptiva 300, 500 Series	4Meg/8Meg/16Meg/32Meg	24/42/79/149
Aptiva 700 Series (pairs)	4Meg/8Meg/16Meg/32Meg	24/42/79/149
Aptiva A Series (pairs)	4Meg/8Meg/16Meg/32Meg	24/42/79/149
Aptiva C Series (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	24/42/79/149
Aptiva M Series	4Meg/8Meg/16Meg/32Meg	24/42/79/149
PC 330 Models 8571-6576	4Meg/8Meg/16Meg/32Meg	24/42/79/149
PC 330 Model 6577 (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	24/42/79/149
PC 340 (EDD, pairs)	4Meg/8Meg/16Meg/32Meg	24/42/79/149
PC 350 Models 6581-6585	4Meg/8Meg/16Meg/32Meg	24/42/79/149
PC 350 Model 6586 (pairs)	4Meg/8Meg/16Meg/32Meg	24/42/79/149
PC 350 Model 6587 (EDD, pairs)	4Meg/8Meg/16Meg/32Meg	24/42/79/149
PC 360	4Meg/8Meg/16Meg/32Meg	37/57/69/159
PC 730 Models 6875-6876 (pairs)	4Meg/8Meg/16Meg/32Meg	37/57/69/159
PC 730 Model 6877 (EDD, pairs)	4Meg/8Meg/16Meg/32Meg	24/42/79/149
PC 750 Models 6885-6886 (pairs)	4Meg/8Meg/16Meg/32Meg	37/57/69/159
PC 750 Model 6887 (EDD, pairs)	4Meg/8Meg/16Meg/32Meg	24/42/79/149
PC Server 310 (pairs)	4Meg/8Meg/16Meg/32Meg	37/57/69/159
PC Server 500 (ECC, pairs)	4Meg/8Meg/16Meg/32Meg	59/79/119/249
P/S 1, 30 Pin Simms	1/Meg/4Meg	12/34
P/S 1, 72 Pin Simms	4Meg/8Meg/16Meg/32Meg	37/57/69/159
P/S 2, 55SX, 65SX	4Meg	49
P/S 2, 53, 53LS, 56, 57	4Meg/8Meg	39/69
P/S 2, 95XP (ECC, pairs)	4Meg/8Meg	49/79
P/S 2 Server, 95, 195, 295 (ECC, pairs)	4Meg/8Meg/16Meg/32Meg	59/79/119/249

Call for All Rise 6000 Memory — Call for All Valuepoint Memory

IBM NOTEBOOK & LAPTOP MEMORY

MODEL	AMT. UPGRADED	MEMORY PRICE	BATTERY PRICE
Thinkpad 340, 345, 355, 360, C, CE	***4Meg/8Meg/16Meg***	***49/79/139***	***129.00***
Thinkpad 365C, CS, CD, E, ED	***4Meg/16Meg***	***39/119***	***129.00***
Thinkpad 365X, 365XD	***8Meg/16Meg/32Meg***	***59/119/269***	***129.00***
Thinkpad 380, 380D, 385D	***8Meg/16Meg/32Meg64Meg***	***79/139/239549***	***120.00***
Thinkpad 500, 510CS	4Meg/8Meg/16Meg	59/79/139	
Thinkpad 560, 560E	8Meg/16Meg/32Meg/64Meg	59/119/269/529	
Thinkpad 700, 720, 750, CL57SX	***4Meg/8Meg/16Meg/32Meg***	***39/79/159/268***	***179.00***
Thinkpad 701, 701C, 701CS	***4Meg/8Meg/16Meg/32Meg***	***39/64/119/299***	***109.00***
Thinkpad 730T, TE	4Meg/8Meg/16Meg	49/89/139	
Thinkpad 755C, CE, CD, CS	***4Meg/8Meg/16Meg/32Meg***	***39/79/129/259***	***159.00***
Thinkpad 760C, CD, L, LD	***4Meg/8Meg/16Meg/32Meg***	***39/69/119/299***	***159.00***
Thinkpad 760E, ED, EL, ELD	***8Meg/16Meg/32Meg***	***69/119/269***	***150.00***
Thinkpad 760XD, 760XL	8Meg/16Meg/32Meg/64Meg	79/129/279/549	
Thinkpad 765D, 765L	8Meg/16Meg/32Meg64Meg	79/129/279/549	

COMPAQ MEMORY MODULES

Deskpro 486/25, 33L, 50L	2Meg/8Meg/32Meg	29/79/199
Deskpro 3/25I, 33I, 4/25IS, 66I	2Meg/4Meg/8Meg	39/69/89
Deskpro 386, 486 M Series	2Meg/4Meg/8Meg	29/39/69
Deskpro M Series Expansion Board	0K (no memory)	119.00
Deskpro 450, 4100, 575, 590, 5100, 5133	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Deskpro 575, 5120, 5133, 5150, 5160 (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Deskpro 2000, 4000, 6000 Series (EDO, pairs)	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Deskpro 5/60M, 5/66M, XE560 (quads)	2Meg/4Meg/8Meg/16Meg/32Meg	39/49/69/139/239
Deskpro XL (pairs)	4Meg/8Meg/16Meg/32Meg	49/69/139/239
Deskpro XL 6150, 6200 (ECC, pairs)	8Meg/16Meg/32Meg/64Meg, 128Meg	Call
Deskpro 2000, Presario 4112, 4122, 4712, 4716, 5526, 5528	1Meg Video	69
Presario 5536, 9232, 9234, 9240, 9250, 9260, 9642, 9660	1Meg Video	69
Presario 510, 520, 524, 660, 720, 724, 860	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Presario 920, 924, 954, 974, 978, 992	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Presario 833, 850, 860, 866	4Meg/8Meg/16Meg/32Meg	39/64/119/239
Presario 5528, 7110, 7152	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Presario 7170, 7180, 9536, 9546, 9548, 9564 (pairs)	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Presario 9232, 9234, 9240, 9250, 9642, 9660 (pairs)	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Proliant 1000 5/60, 2000, R, 4000, R (quads)	4Meg/8Meg/16Meg/32Meg	36/62/99/189
Proliant 1500, 1500R (pairs)	4Meg/8Meg/16Meg/32Meg	36/62/99/189
Proliant 4500, 4500R (quads)	4Meg/8Meg/16Meg/32Meg/64Meg	39/64/119/239/599
Proliant 5000, 5000R (pairs)	32Meg/64Meg/128Meg/256Meg	Call
Prolinea 4/25S, 4/33, 4/66	2Meg/4Meg/8Meg	29/39/69
Prolinea (enhanced), MT	4Meg/8Meg/16Meg/32Meg	34/57/89/159
Prolinea 575, 590, 5100, 5120, 5133 (pairs)	4Meg/8Meg/16Meg/32Meg	34/57/89/159
Prolinea 5100, 5120, 5133, 5150, 5166 (EDD pairs)	4Meg/8Meg/16Meg/32Meg	34/57/89/159
Prolinea 575E, 100E, 120E, 575MX (pairs)	4Meg/8Meg/16Meg/32Meg	34/57/89/159
Prolinea 590MX, 5120MX (pairs)	4Meg/8Meg/16Meg/32Meg	34/57/89/159
Prolinea 6150E, 6180E (pairs)	8Meg/16Meg/32Meg	69/119/239
Prosignia 300 5/75, 5/90, 5/120, 5/150 (pairs)	4Meg/8Meg/16Meg/32Meg	34/57/89/159
Prosignia 500 5/90, 5/120, 5/150 (pairs)	4Meg/8Meg/16Meg/32Meg	34/57/89/159

COMPAQ NOTEBOOK/LAPTOP MEMORY

MODEL	AMT. UPGRADED	MEMORY PRICE	BATTERY PRICE
Thinkpad 340, 345, 355, 360, C, CE	***4Meg/8Meg/16Meg***	***49/79/139***	***119.00***
Armada 1100, 1120T, 1120, 1125	8Meg/16Meg/32Meg/64Meg	69/129/229/549	
Armada 1130, 1130T (pairs)	4Meg/8Meg/16Meg	49/69/129	
Armada 1510DM, 1520DM, 1550DMT	16Meg/32Meg/64Meg	139/239/579	
Armada 4100, 4110, D, 4120, T, 4130T, 4131T	8Meg/16Meg/32Meg	69/129/239	
Armada 7710MT, 7730MT, 7750DMT	16Meg/32Meg/64Meg	139/239/579	
Concerto 4/25, 433	***4Meg/8Meg/16Meg***	***49/79/124***	***130.00***
Contura 4/25, 4/25C, 4/25CX	***4Meg/8Meg/16Meg***	***49/79/129***	***109.00***
Contura 400C, 400CX, 410C, 410CX	***4Meg/8Meg/16Meg***	***49/79/134***	***109.00***
Contura 420C, 420CX, 430C, 430CX	***4Meg/8Meg/16Meg/24Meg***	***49/79/134/199***	***109.00***
Contura Aero	***4Meg/8Meg/16Meg***	***39/79/139***	***109.00***
LTE 5000, 5100, 5200, 5300	***6Meg/16Meg/32Meg/64Meg***	***80/129/249/469***	***139.00***
LTE Elite 440C, CX, 4/75CX	***4Meg/8Meg/16Meg/24Meg***	***49/69/139/199***	***139.00***
LTE Lite 425	***4Meg/8Meg/16Meg***	***49/79/136***	***195.00***
Presario 1000, 1010, 1020, 1030, 1070, 1080	***8Meg/16Meg/32Meg***	***50/119/229***	***110.00***

DELL MEMORY

Dimension XPS M166S, M2090, P133s, 166s, 200s, P133v, 166v, 200v	8Meg/16Meg/32Meg	55/99/199
Dimension XPS P60, P75, P90, P100 (pairs)	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Dimension XPS P100c, 120c, 133c, 166c, XPS P75T, 100T (pairs) FPM or EDO	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Dimension XPS Pro 150, Pro 200 (quads)	4Meg/8Meg/16Meg/32Meg	39/69/102/209
Dimension XPS Pro 150n, 180n, 200n (Edo pairs)	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Optiplex GL, GM, GMT (Edo pairs)	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Optiplex GS, GXL, GXM, GXMT (Edo pairs)	4Meg/8Meg/16Meg/32Meg	24/42/69/139
Optiplex GXI, GXpro, 6180, 6200 (Edo, Ecc)	16Meg/32Meg/64Meg/128Meg	119/229/469/999
PowerEdge 2100, 4100 (Edo, Ecc)	16Meg/32Meg/64Meg/128Meg/256Meg	119/224/469/999/2499

LASER PRINTER MEMORY UPGRADES

AMOUNT UPGRADED	OK Bd	266k	1	2	3	3.5	4	5	6	8	16	32
Brother 630, 631, 641, 645	–	–	39	59	–	–	–	–	–	–	–	–
Canon LBP 430	–	–	19	–	–	–	49	–	–	–	–	–
Canon LBP 860, 1260	–	–	–	19	–	–	49	–	–	79	99	179
Canon LBP4, 4Lite, 4plus	–	–	129	179	–	–	–	–	–	–	–	–
Epson Action Laser 1100, 1600	–	–	19	29	–	–	49	–	–	89	109	–
Epson Action Laser II	–	–	74	–	130	–	–	180	–	–	–	–
Epson 8000, 1800, 4000, 4100, 4300	–	–	89	–	130	–	–	180	–	–	–	–
Epson 1000, 1500,5000, 5200	–	–	–	49	–	–	98	–	–	–	–	–
HP 2, 2D–	–	–	–	59	–	–	79	–	–	–	–	–
HP 3, 3D, 3P, 2P 2P+	–	–	–	***59***	–	–	***79***	–	–	–	–	–
HP 4, 4M, 4SI, 4SIMX	–	–	–	19	–	–	49	–	–	79	–	–
HP 4P, 4PLUS, 4MPm 1600, 1600CM	–	–	9	19	–	–	39	–	–	79	99	179
HP 4L	–	–	29	–	–	–	–	–	–	–	–	–
HP 3SI	–	–	9	–	–	–	39	–	–	79	–	–
HP 5L, 6L, 6LXI	–	–	–	–	–	–	49	–	–	99	–	–
HP 5P, 5MP, 4V, 4MV, 6P, 6MP	–	–	9	19	–	–	39	–	–	79	99	179
HP Design Jet 600, 650, 200	–	–	–	19	–	–	39	–	–	79	109	169
HP Design Jet 700, 750C Plus	–	–	–	–	–	–	29	–	–	49	89	179
HP Deskjet 500, 500C, 510, 550,560	–	***20***	–	–	–	–	–	–	–	–	–	–
HP Deskjet 1200C, 1200C/P	–	–	–	39	–	–	49	–	–	89	–	–
HP Paintjet XL300	54	–	–	–	–	–	69	–	–	144	299	–
IBM Laser 4019, 4019E	–	–	–	–	–	109	–	–	–	–	–	–
IBM Laser 4029, 4037	–	–	–	–	–	–	49	–	–	–	–	–
IBM Laser 4039, 4070	–	–	–	***39***	–	–	***80***	–	–	***99***	–	–
Lexmark Medley 4C, 4x, 4SX	–	–	Call	Call	Call	–	–	–	–	–	–	–
Lexmark, Optra L, LX, R, RX	–	–	–	–	–	–	39	–	–	69	99	199
Lexmark Valuwriter 300,600	–	–	29	39	–	–	89	–	–	–	–	–
Lexmark Winwriter 200, 400, 600	–	–	29	39	–	–	89	–	–	–	–	–
NEC 90, 290	–	–	–	89	–	–	–	–	–	–	–	–
NEC 95, 97	–	–	–	59	–	–	–	–	–	–	–	–
Oki 400	–	–	–	59	–	–	–	–	–	–	–	–
Oki 400E, 400EX, 410E, 410EX	–	–	67	89	169	–	189	–	–	–	–	–
Oki 810E, EX, 600E, EX, 610E, EX	–	–	29	79	–	–	119	–	–	149	229	–
Oki 830, 840	–	–	–	59	–	–	–	–	–	–	–	–
Panasonic 4420/4450I	–	–	–	79	–	–	109	–	–	–	–	–
Panasonic 4410/4430	–	–	–	***50***	–	–	***99***	–	–	–	–	–
Panasonic 4450	–	–	89	–	–	–	–	–	–	–	–	–
Panasonic 4400/5400	–	–	49	69	–	–	109	–	–	–	–	–
Panasonic 4440, 5410	–	–	69	–	–	–	109	–	–	–	–	–
Panasonic 6500	–	–	14	29	–	–	69	–	–	–	–	–
Sharp 9400, 9460, 9600, 9700E	–	–	49	69	–	–	119	–	–	–	–	–
Sharp 9500, E, H, 9700, H	–	–	49	–	–	–	236	–	–	–	–	–

CUSTOMER SERVICE & TECHNICAL: OPEN M–F, 9–4 PST

All products brand new & guaranteed • We buy excess inventory
Trademarks are registered with their respective companies.

L.A. TRADE

22825 Lockness Avenue • Torrance, CA 90501

BATTERIES

★ ★ CALL FOR NOTEBOOK AND LAPTOP BATTERIES ★ ★
Compaq, IBM, Toshiba, Epson, AST, TI and More!!

ACER 730 thru 789 . . . . $129
Canon Innova Book 350, 360, 475 134
Compaq Contura 3/25, 4/25 109
Compaq Aero, 400, 410, 420, 430 109
Compaq LTe 5000 Series 139
Epson Action Note 650, 660 119
Epson Action Note 800, 866, 880, 910 119
IBM Thinkpad 355, 360. 119
IBM Thinkpad 365 C, ED, XD 129
IBM Thinkpad 701. 109
IBM Thinkpad 750, 755. 179
IBM Thinkpad 755 CD, CE, CV, CX 179
NEC Versa 2400, 2405, 2430, 2435 159
NEC Versa E, V $135
NEC Versa S 99
Sharp 3010, 3020, 3050, 3060, 3150 129
Sharp 8700, 8800, 8900 129
TI Exstensa 450, 455, 510, 515 139
TI Exstensa 550, 555, 560, 570 149
TI Exstensa 600, 605, 650 169
Toshiba 400, 405, 410, 415, 420, 425, 430 (NIMH). 219
Toshiba 100, 105, 110, 115, 200, 205 105
Toshiba 2100 Series 99
Toshiba 2400, 2450, 1900, 1950, 1960 109
Toshiba 4700, 4800, 4850, 4900 109
Toshiba T4500, T4600 159

TOSHIBA LAPTOP MEMORY

MODEL	AMT. UPGRADED	MEMORY PRICE	BATTERY PRICE
Libretto 50CT	8Meg/16Meg/32Meg/48Meg/128Meg	69/118/229/369/1049	
Dynapad T200, T200CS		Call	
Tecra 500CDT, CS, 510CDS, CDT	8Meg/16Meg/32Meg/48Meg/128Meg	69/118/243/Call/Call	
Tecra 520CDT, 530CDT	8Meg/16Meg/32Meg/48Meg/128Meg	69/118/243/Call/Call	
Tecra 700CS, 700CT (SDRAM)	8Meg/16Meg/32Meg	79/129/229	
Tecra 710CDT, 720CDT, 730CDT	8Meg/16Meg/32Meg/64Meg/128Meg	79/129/239/539/1079	
Tecra 730XCDT, 740CDT	8Meg/16Meg/32Meg/64Meg/128Meg	79/129/239/539/1079	
T2000SXE	***6Meg***	***94***	***170.00***
T2100 Series	***4Meg/8Meg/16Meg/24 Meg***	***39/59/119/189***	***110.00***
T1900, T4500, T4600, T4700, T4900 All Models	***4Meg/8Meg/16Meg/32Meg***	***39/79/129/239***	***109.00***
T2400, T3400, T3400CT, T3600	***4Meg/8Meg/16Meg***	***49/69/119***	***119.00***
Satellite T100CS, 105CS, 110CS, 110CT, 115CS	***6Meg/16Meg/32Meg***	***74/129/239***	***119.00***
Satellite 200CDS, 205CDS Series	***6Meg/16Meg/32Meg***	***79/129/239***	***119.00***
Satellite 220CDS	8Meg/16Meg/32Meg/48Meg/128Meg	79/129/249/369/1079	
Satellite T400 Series, T600 Series	***6Meg/16Meg/32Meg***	***70/129/239***	***229.00***
Portege 300	16Meg/32Meg	129/239	
Portege 610CT, 620CT, 650CT, 660CT	8Meg/18Meg/32Meg/64Meg	79/139/249/539	

NOTEBOOK, LAPTOP MEMORY

MODEL	AMT. UPGRADED	MEMORY PRICE	BATTERY PRICE
ACERNote 730C, 735C, 780C, 760CX, 780CX	***4Meg/8Meg***	***89/89***	***129.00***
ACERNote 763, 765, 782, 784, 786	4Meg/8Meg/16Meg	39/69/119	
ACERNote Light 350, 352, 358	***4Meg/8Meg/16Meg***	***40/69/129***	***179.00***
ACERNote Light 356, 358, 359, 361 (pairs) edo	***4Meg/8Meg/16Meg***	***49/60/129***	***179.00***
ACERNote Nuovo 971, 972, 372, 373, 374	8Meg/16Meg/32Meg	69/125/239	
ACERNote Pro 950, 954, 955, 957, 959 (pairs)	4Meg/8Meg/16Meg	59/79/129	
Ambra SN Series	***4Meg/16Meg***	***69/149***	***120.00***
Ambra N-76, N-100	***4Meg/8Meg/16Meg***	***40/79/130***	***139.00***
AST Ascentia A41, A42	***6Meg/16Meg/32Meg/64Meg***	***79/139/269/620***	***179.00***
AST Ascentia P30, P50	8Meg/16Meg/32Meg	79/149/269	
AST Ascentia J10, J30,J50 (pairs)	8Meg/16Meg/32Meg/64Meg	79/129/249/359	
AST Ascentia 800N, 810N, 000N, 910N	***8Meg/16Meg***	***70/129***	***120.00, 195.00***
AST Ascentia 950N	***6Meg/16Meg***	***79/130***	***199.00***
AST Bravo & Explorer	***4Meg/16Meg***	***79/130***	***165.00***
AT&T Globalyst 130, 200, 260	***4Meg/8Meg/16Meg***	***49/79/110***	***139.00***
Austin DX4, DX2, SX2, SX Series	***4Meg/16Meg***	***89/169***	***159.00***
Austin Edge CD P-133 edo	8Meg/16Meg	89/149	
Austin Edge Duet (pairs) edo	16Meg/32Meg	79/139	
Austin Vista	4Meg/8Meg/16Meg/24Meg	49/79/139/199	
Canon 1100, 300P (pairs)	***4Meg/8Meg/16Meg***	***89/79/120***	***129.00***
Canon Innova Book 150, 178	***4Meg/16Meg***	***59/139***	***129.00***
Canon Innova Book 200LS	4Meg/8Meg/16Meg/24Meg	59/89/179/249	
Canon Innova Book 350CD, 360, 475	8Meg/16Meg	59/119	
Canon Innova Book 480, 490 edo	***8Meg/16Meg***	***69/119***	***139.00***
CTX EZ Book 500, 600, 700 Pent, Series	4Meg/8Meg/16Meg	59/89/119	
DEC HiNote	***4Meg/8Meg/16Meg***	***89/69/139***	***129.00***
DEC HiNote Ultra, Ultra II	4Meg/8Meg/16Meg	39/69/119	
DEC HiNote VP 520, 525, 535, 545 (pairs)	4Meg/8Meg/16Meg	39/69/119	
DEC HiNote VP 5100, 5120	8Meg/16Meg/32Meg/64Meg	69/119/219/669	
DEC HiNote VP, Css, LSS, CTS, LTS	8Meg/16Meg/32Meg/64Meg	69/119/219/669	
Dell Lattitude LM (pairs)	4Meg/8Meg/16Meg	39/69/129	
Dell Lattitude 433, C, CX	4Meg/16Meg	59/129	
Dell Lattitude LX, M	***4Meg/8Meg/16Meg***	***49/79/139***	***129.00***
Dell Latitude XP, XPI	4 Meg/8Meg/16Meg	44/69/119	
Epson ActionNote 650, 650c, 660c, 660cx	***4Meg/8Meg/16Meg***	***39/79/139***	***110.00***
Epson ActionNote 880, 866c, 890, 910	4Meg/8Meg/16Meg/20Meg	39/69/134/199	
Epson ActionNote 4LC/25, 4LC/33, 4SLC/2-50, 4000	***6Meg***	***69.00***	***90.00***
Fujitsu Lifebook 500, 600 Series edo	8Meg/16Meg/32Meg	69/139/269	
Fujitsu Monte Cario, Montego, Milan	8Meg/16Meg/32Meg	69/139/269	
Gateway 2000 Colorbook 4/33	***4Meg/16Meg***	***89/179***	***135.00***
Gateway 2000 Nomad 425 DXL/SXL	***4Meg/16Meg***	***79/559***	***100.00***
Gateway 2000 486 Handbook or Liberty	4Meg/16Meg	49/139	
Gateway 2000 Solo Series (pairs)	4Meg/8Meg/16Meg	69/89/139	
Gateway Solo Series 2100, 2200 edo	8Meg/16Meg/32Meg	69/159/289	
Hitachi C-Series	8Meg/16Meg/32Meg	79/129/229	
Hitachi E-Series, MX Series	***6Meg/16Meg/32Meg***	***79/139/269***	***120.00***
Hitachi M-Series	***6Meg/16Meg/32Meg***	***80/110/249***	***129.00***
HP Omnibook 530, 600	***4Meg/8Meg/12Meg***	***49/69/99***	***80.00***
HP Omnibook 800	8Meg/16Meg/32Meg/64Meg	79/129/349/599	
HP Omnibook 4000C, CT, C	***4Meg/8Meg/18Meg***	***59/89/130***	***120.00***
HP Omnibook 5000CT, CTS, C, 5500CS	***6Meg/16Meg/32Meg***	***79/139/256***	***129.00***
Leading Edge Aviva 2000	8Meg/16Meg	69/139	
Micron MilleniaTransport Pentium (pairs)	8Meg/16Meg	89/149	
Midwest Micro Elite or Soundbook	4Meg/8Meg/16Meg	69/99/149	
Midwest Micro Elite or Soundbook Plus or Sndbk II, IIP	4Meg/8Meg/16Meg	69/99/149	
Midwest Micro Elite or Soundbook CD	4Meg/8Meg/16Meg	69/99/149	
NEC Ultralite Versa, E, V, MP	***4 Meg/8Meg/16Meg/32Meg***	***49/69/179/239***	***135.00***
NEC Versa S, Versa 2000C, D, 2205C	***4Meg/8Meg/16Meg***	***49/79/129***	***110.00***
NEC Versa 2400 Series, 2530, 2535 (Edo)	8Meg/16Meg	79/119	
NEC Versa 2600 Series (pairs)	8Meg/16Meg	79/129	
NEC Versa 4000, 4050/4080, 4200, 4230	4Meg/8Meg/16Meg/32Meg	59/79/139/299	
NEC Versa 6000, 6050, 6030	8Meg/16Meg/32Meg/64Meg	69/139/249/659	
NEC Versa 6200MX edo	8Meg/16Meg/32Meg/64Meg	69/139/229/659	
Olivetti Echos P75-P1335 (pairs)	4Meg/8Meg/16Meg	59/89/149	
Packard Bell Statesman	***2Meg/8Meg***	***29/79***	***189.00***
Panasonic CF-V21P, CF-580	***4Meg/16Meg***	***49/139***	***175.00***
Panasonic CF-V41P Series	***4Meg/8Meg/16Meg/32Meg***	***49/69/139/289***	***Call***
Protege 650CT, 660 CDT	8Meg/16Meg/32Meg/64Meg	Call	
Sager Midern, all models	***4Meg/8Meg/16Meg/32Meg***	***69/99/169/399***	***Call***
Samsung Sens 810	8Meg/16Meg/32Meg	79/139/247	
Sceptre Soundx, all models	4Meg/8Meg/16Meg	49/89/149	
Sharp 3030, 3040, 3070	8Meg/16Meg/32Meg	69/119/229	
Sharp 3010, 3020, 3050, 3060	***4Meg/8Meg/16Meg/32Meg***	***39/69/119/229***	***129.00***
Sharp 6150, 8650, 6660, 7700, 7780	***4Meg/16Meg***	***69/139***	***169.00***
Sharp 6700, 6800, 6900	***4Meg/8Meg/16Meg***	***49/69/139***	***129.00***
Sharp 9000, 9030, 9020, 9050, 9300CD, T edo	8Meg/16Meg/32Meg	69/129/229	
Sharp 9040, 9070 (pairs)	4Meg/8Meg/16Meg/32Meg	39/69/119/525	
Sharp 9080 (pairs) edo	4Meg/8Meg/16Meg	39/69/119	
Sharp Widenote 100T	8Meg/16Meg/32Meg	69/119/219	
TI 4000, TI 4000E, TI 4000M	***4Meg/16Meg***	***69/369***	***100.00***
TI 5000, 5100, 5200, 5300	8Meg/16Meg	79/139	
TI 6020, 6030, 6050, 6160	8Meg/16Meg/32Meg	59/119/711	
TI Extensa, 450, 450T, 455, 455T	***4Meg/8Meg/16Meg***	***49/69/110***	***179.00***
TI Extensa, 510, 515 (pairs) edo	***4Meg/8Meg/16Meg***	***49/69/110***	***179.00***
TI Extensa, 550, 555, 560, 665, 670 (pairs)	***4Meg/8Meg/16Meg***	***40/69/129***	***169.00***
TI Extensa, 600, 805, 650, 655, 665	***6Meg/16Meg/32Meg***	***89/129/349***	***170.00***
TI Extensa, 800, 605, 650, 900, T, CDT edo	***6Meg/16Meg/32Meg***	***69/119/249***	***179.00***
Twinhead, Altima, Compudyne, 486SX, OX, Tandy 4860	***4Meg/16Meg***	***49/139***	***169.00***
Winbook FX P100, P133, P150	8Meg/16Meg/32Meg	69/129/269	
Winbook XPC, XP	***16Meg/32Meg***	***129/238***	***110.00***
Winbook XP5	***32Meg***	***243***	***110.00***
Zenith Z-Note MX	***4Meg/8Meg/16Meg***	***89/74/139***	***Call***
Zenity Z-Note GT P75, P90 (pairs)	***4Meg/8Meg/16Meg***	***39/69/110***	***149.00***
Zenith Z-Star 4/33	***2Meg/8Meg***	***29/79***	***169.00***
Zenith Z-Star EX, ES	***4Meg/8Meg/16Meg***	***50/89/139***	***05.00***

PC CARDS (PCMCIA) VERSION 2.0

MODEL	PRICE	MODEL	PRICE
S-RAM Cards 1MEG	$109	Portable 6X CD Rom & PC Card	$299
S-RAM Cards 2MEG/4MEG	189/469	Portable 8X / 10X CD Rom & PC Card	399/419
PC Card Reader 16 Bit	149	*SCSI Type II*	*139*
33.6/14.4 Cellular Ready	229	Multimedia Combo, Sound/SCSI	349
Lan Ethernet (Coax), (10 Base T)	89	Type III 340 Mg Hard Drive	479
56.6/14.4 Data/Fax Modem	219	33.6 Data Combo Card 33.6/14.4 & Ethernet	399
33.6/14.4 Data/Fax Modem	129		

FLASH RAM (ATA) — Works with Digital Cameras Kodak DC-50 & More
4 Meg–79 8 Meg–119 16Meg–219 20Meg –265 40Meg–515 64Meg–699
COMPACT FLASH — 4Meg/8Meg 110/159

HARD DRIVES FOR LAPTOP & NOTEBOOK

ACER NOTE	**1.4G**	**2.1G**	**3.08G**
Lite Series	269	369	—
730-789	269	369	679
Pro 950-959	269	369	—
Nuovo 971, 972	289	369	—
COMPAQ	**1.4G**	**2.1G**	**3.08G**
Contura Series	299	499	796
LTe 5000-5400	324	553	—
FUJITSU	**1.4G**	**2.1G**	
Milan, Montego	269	369	
Monte Carlo	269	369	
Lifebook Series	269	369	
IBM THINKPAD	**1.4G**	**2.1G**	
355, 360, C, CS,P	324	553	
750, C, CE, CS, P	324	553	
755, C, CD, CE, CS	324	553	
755, CSE, CV, CX	324	553	
760, C, L, LD	324	553	

NEC VERSA	**1.4G**	**2.1G**	**3.0G**
E, M, P, S, V	324	553	
PANASONIC	**1.4G**	**2.1G**	
CF-V21P	269	369	
CF-V41	269	369	
SHARP	**1.4G**	**2.1G**	**3.0G**
7700, 7750, 8150	269	369	715
8650, 8660, 8700	269	369	715
8800, 8900	269	369	715
TOSHIBA	**1.4G**	**2.1G**	**3.08G**
100CS, 105CS,	269	369	—
110CS, CJ, 115CS	269	369	—
T1900, 1910	269	369	715
T1950, 1960	269	369	715
T2100, CS, CT	269	369	—
T2110CS	269	369	—
T2115CS	269	369	—
T2130CS, CT	269	369	—

TOSHIBA (cont)	**1.4G**	**2.1G**	**3.08G**
T2135CS, CT	269	369	—
T2150CDS, CDT, CDS	269	369	—
T2400CS, CT	269	369	715
T2450, CT	269	369	715
TOSHIBA TECR		**1.44G**	**2.1G**
T700CS		324	553
T700CT		324	553
T710CDT		324	553
T720CDT		324	553
T730CDT		324	553
UNIVERSAL	**1.4G**	**2.1G**	**3.0G**
IDE 19mm	269	369	715
SLIM 12mm	269	389	Call

310-539-0019
FAX: 310-539-5844

SECURITY WILL CALL WINDOW NOW OPEN

CALL TOLL FREE **1-800-433-3726** (US and Canada)

ESTAB. 1985

Prices & Availability Subject to Change Without Notice

Mon-Fri, 8:00 a.m. to 5:00 p.m. PST
Sat. 10:00 a.m. to 12:00 noon

Check out our website at www.4LATrade.com or E-mail: Sales@LATrade.win.net

CELEBRATE AS PCs COMPLEAT JOINS THE NEW COMPUSA DIRECT.

PCs COMPLEAT

COMPUSA DIRECT

Superstore Savings Direct To You℠

1-800-670-9540

www.compusa.com

FREE OFFERS INSIDE!

8782

GRAND OPENING FREE

CALL WHILE SUPPLIES LAST.

THE NEW COMPUSA DIRECT

Advantage!

The service and experience of PCs Compleat combined with the selection, support and incredible buying power of CompUSA Direct®. We offer more than 130 store locations nationwide for: hassle-free drop-off technical service, product returns and exchanges.

- Over 50,000 products
- Knowledgeable, helpful service
- Guaranteed low pricing
- Same day shipping for second day delivery on in-stock items
- Professional on-site installation available at reasonable prices
- Custom configuration
- Free software installation with system purchase
- Toll-free technical support for hardware and software
- Hassle-free drop-off technical service at over 130 CompUSA® Computer Superstores℠ locations nationwide
- On-site technical service available
- Technology Assurance Program™ support/repair coverage
- Computer and software training at CompUSA training facilities
- Flexible payment plans
- Money-back satisfaction guaranteed (Call for details)

NO PAYMENTS, NO INTEREST! FOR 6 MONTHS

On everything we sell. No minimum purchase. Must be paid in full within 6 months from date of purchase. Offer valid until the next issue of this magazine or 60 days, whichever comes first. 'No Payments/No Interest Financing Details. 'Subject to credit approval. Applies to purchases made with the CompUSA consumer credit card. Accrued finance charges will be assessed from the original date of purchase if balance is not paid in full within six months. As of June 25, 1997, The CompUSA credit card annual percentage rate (APR) is 22.30%. APR's vary; minimum monthly finance charge of 1.00 may apply. Credit is provided by Beneficial National Bank USA.

THE NEW COMPUSA DIRECT

Superstore Savings Direct To You℠

1-800-670-9540

www.compusa.com

FREE VCR & SCANNER

Purchase a desktop computer containing a 166MHz or greater Processor and get a FREE VCR and Scanner!

Limit 2 per customer. Product may differ slightly from photo.



or VISIONEER

FREE SCANNER

Purchase any desktop computer and get a FREE PC compatible Scanner!

Limit 2 per customer.



FREE VCR & CARRYING CASE

MICRO™ CASE

Purchase any notebook computer containing a 166MHz or greater Processor and get a FREE VCR and Carrying Case!

Limit 2 per customer.





or

FREE CARRYING CASE

Purchase any notebook computer and get a FREE Carrying Case to help protect your investment!

Limit 2 per customer.



FREE

Broderbund®

PrintShop Deluxe III!

Purchase any Canon, Epson, NEC or Okidata printer and get PrintShop Deluxe III FREE!

Limit 2 per customer.



FREE*



PowerCenter Deluxe!

Price Before Rebate	30.00
Mfr. Mail-In Rebate	-30.00▲
Price After Rebate	0.00

Limit 2 per customer.
*Free after Manufacturer Mail-In Rebate.

FREE*



Ergonomic Keyboard Drawer!

Improve your posture!

Price Before Rebate	25.00
Mfr. Mail-In Rebate	-25.00▲
Price After Rebate	0.00

Limit 2 per customer.
*Free after Manufacturer Mail-In Rebate.

FREE



Internal Modem!

When you purchase Microsoft Office 97 upgrade. Four powerful applications to help manage information: Excel 97, Word 97, PowerPoint 97 and Outlook 97!

Price Before Rebate	219.95
Mfr. Upgd. Mail-In Rebate	-40.00▲*
Price After Rebate	179.95

Limit 2 per customer.
*Proof of ownership required. 021-00703

FREE*



3.5" DS/HD Diskettes, 50-Pack!

IBM-Preformatted.

Price Before Rebate	15.00
Mfr. Mail-In Rebate	-15.00▲
Price After Rebate	0.00

Limit 2 per customer.
*Free after Manufacturer Mail-In Rebate

FREE*



Recordable CDs 2-Pack

650MB of data or 74 minutes of audio.

Price Before Rebate	10.00
Mfr. Mail-In Rebate	-10.00▲
Price After Rebate	0.00

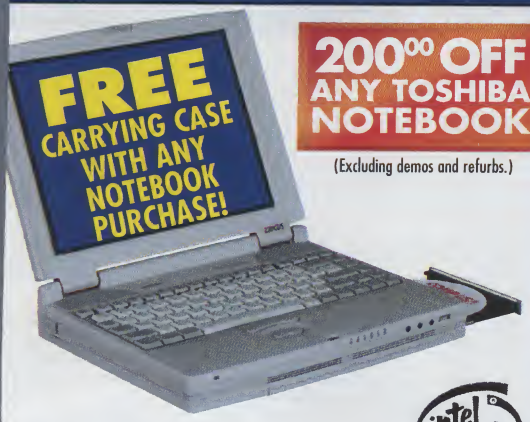
Limit 2 per customer.
*Free after Manufacturer Mail-In Rebate.

OFFERS AVAILABLE THROUGH MAIL ORDER AND THE INTERNET ONLY.

OFFERS & REBATES!

LIMITED TIME OFFER!

OFFERS AVAILABLE THROUGH MAIL ORDER AND INTERNET ONLY.



$200.00 OFF ANY TOSHIBA NOTEBOOK

(Excluding demos and refurbs.)

intel inside pentium PROCESSOR

TOSHIBA

Satellite 220 CDS

- 133MHz Pentium® Processor
- 1.4GB Hard Drive
- 16MB RAM
- 10X CD-ROM Drive
- 12.1" Dual-Scan Display

Price Before Rebate 1999.95
Instant Rebate -200.00
1799.95
Price After Rebate
PA1240U-52G

YOUR CHOICE $300 INSTANT REBATES

Packard Bell.



MMX intel inside pentium PROCESSOR

PLT2015

- 166MHz Pentium® Processor with MMX™ Technology • 2.1GB Hard Drive • 32MB RAM • 16X CD-ROM Drive • 33.6/14.4 Data/Fax Modem

Monitor sold separately. While supplies last.

Price Before Rebate 1299.95
Instant Rebate -300.00
999.95
Price After Rebate
842941

IBM



intel inside pentium PROCESSOR

ThinkPad 560

- 133MHz Pentium® Processor • 8MB RAM
- 2.1GB Hard Drive Plus CD
- 12.1" Active Matrix Display

Price Before Rebate 3899.95
Instant Rebate -300.00
3599.95
Price After Rebate
264020U
While supplies last.

LIMITED TIME OFFER!

$200 INSTANT REBATE

NEC



intel inside pentium PROCESSOR

Ready 9701SE

- 166MHz Pentium® Processor
- 2.1GB Hard Drive • 16MB RAM • 56K*/14.4 Data/Fax Modem • 16X CD-ROM Drive
- 16-Bit 3D Surround Sound with Software Wavetable • 64-Bit PCI Accelerated Graphics

*56K Modems are capable of downloads at 56Kbps, but speeds in actual use may vary. Monitor sold seperately. While supplies last.

Price Before Rebate 1299.97
Instant Rebate -200.00
1099.97
Price After Rebate
102-00197



$100 INSTANT REBATES

COMPAQ



intel inside pentium PROCESSOR

NEC

- 17" Color Monitor • .28 NI
- 15.8" Viewable Image Size
- 1280x1064 • 60Hz

Price Before Rebate 599.95
Instant Rebate -100.00
499.95
Price After Rebate
JC-1734VMA-FR3C

Presario 4122 Remanufactured

- 150MHz Pentium® Processor
- 2.5GB Hard Drive
- 16MB RAM
- 8X CD-ROM Drive
- 33.6/14.4 Data/Fax Modem

Monitor sold separately. While supplies last.

238200-003
Price Before Rebate 899.95
Instant Rebate -100.00
799.95
Price After Rebate

$50 INSTANT REBATES

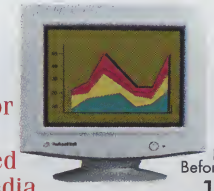


Microsoft Office 97 Professional

Five powerful applications that work together and alike: Excel 97, Word 97, PowerPoint 97, Access 97 and Outlook 97.

Price Before Rebate 539.95
Instant Rebate -50.00
489.95
Price After Rebate
353-00005

Packard Bell.



14" Color Reman-ufactured Multimedia Monitor

- 13.1" Viewable Image Size
- 1024x768 Resolution
- .28 NI
- Integrated Stereo Speakers

Price Before Rebate 199.95
Instant Rebate -50.00
149.95
Price After Rebate
018277-FR

FREE PRINTSHOP DELUXE III WITH PURCHASE!



EPSON

Stylus 500 Inkjet Remanufactured Color Printer

- 720x720dpi Resolution
- 4ppm
- PC and Mac® Compatible

Price Before Rebate 199.95
Instant Rebate -50.00
149.95
Price After Rebate
C198011-FR

THE NEW COMPUSA DIRECT

GET THE COMPUSA ADVANTAGE WITH MORE THAN 130 STORES NATIONWIDE FOR TECHNICAL SUPPORT AND SERVICES!

Circle 193 on reader service card.

1-800-670-9540
www.compusa.com

FREE VCR WITH PURCHASE OF ANY P166 OR GREATER COMPUTER!

PLUS 200.00 OFF ANY TOSHIBA NOTEBOOK COMPUTER!*

*Remanufactured and demos excluded.

intel inside pentium PROCESSOR

SAVE 200.00!

FREE EarthLink Internet Access! Purchase any desktop or notebook computer and get EarthLink FREE for 30 days! A 45.00 Value!



Satellite 220CDS

TOSHIBA
Satellite 220CDS

- 133MHz Pentium® Processor
- 1.44GB Hard Drive • 16MB RAM
- 10X CD-ROM Drive
- 12.1" Dual-Scan Display

Price Before Rebate 1999.95
Instant Rebate -200.00
1799.95
Price After Rebate
PA1240U-S2C

Toshiba 440CT	Pentium® 133MMX™, 12.1" Active, 16MB, 1.4GB,10X CD-ROM	PA1241U-T2C	3299.95-200IR=3099.95
Toshiba 520CDT	Pentium® 166MMX™, 12.1" Active, 32MB, 2GB,10X CD-ROM	PA1246U-T2A	4699.95-200IR=4499.95
Toshiba 530CDT	Pentium® 166MMX™, 12.1" Active, 32MB, 2.1GB,10X CD-ROM	PA1247U-T2A	5099.95-200IR=4899.95

KiWi



intel inside pentium PROCESSOR

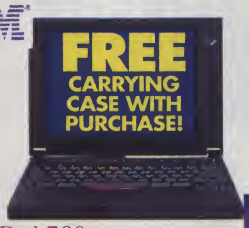
280B

- 133MHz Pentium® Processor
- 1.08GB Hard Drive • 16MB RAM
- 10X CD-ROM Drive • 11.3" Dual-Scan Display

ONLY 1599.95
280B

Kiwi 780C P166MMX, 12.1" Active Matrix Display, 64MB, 2.0GB 780C 3499.95

IBM



MMX™ intel inside pentium® PROCESSOR

NEW!

ThinkPad 560

- 150MHz Pentium® Processor with MMX™ Technology • 2.1GB Hard Drive • 16MB RAM • 11.3" Dual-Scan Display

ONLY 2799.95
264030U

SONY

PCG-707C

- 166MHz Pentium® Processor with MMX™ Technology
- 2.1GB Hard Drive
- 32MB RAM
- 14.5X MAX CD-ROM
- 12.1" Active Matrix LCD Display



MMX™ intel inside pentium® PROCESSOR

ONLY 4499.95
PCG-707C

Sony PCG-705C Pentium® 150MMX™, 12.1" Active Matrix Display, 16MB, 2.1GB PCG-705C 3499.95

FREE SCANNER WITH THE PURCHASE OF ANY DESKTOP COMPUTER!

COMPAQ
Presario 2200



- 180MHz Processor with MediaGX
- 1.6GB Hard Drive
- 16MB RAM
- 8X CD-ROM Drive
- 33.6 Modem Upgradable to 56K
- Premier Sound Audio System

ONLY 799.95
292600-004
Monitor Sold Separately. While Supplies Last.

Presario 2200 with 14" Monitor, 13.2" Viewable Image Size 292600-004-KIT	999.95
14" V410 Monitor, 13.2" Viewable Image Size 285706-001	229.95

intel inside pentium PROCESSOR



AST COMPUTER

Bravo MS-T Minitower Computer

- 100MHz Pentium® Processor
- 2.0GB Hard Drive • 16MB RAM/192 MB Max • 7 Drive Bays total • One-Year On-site Warranty

Price Before Rebate 999.95
Instant Rebate -100.00
899.95
Price After Rebate
501955-401
Monitor Sold Separately. While Supplies Last.

200 MHz ONLY 999.95!



COMPAQ
Presario 4504

- 200MHz Pentium® Processor
- 2.1GB Hard Drive
- 16MB EDO RAM
- 16X CD-ROM Drive
- 33.6 Modem Upgradable to 56K
- 64-Bit 3D Graphics
- 16-Bit Stereo Sound
- JBL Pro Speakers

intel inside pentium PROCESSOR

ONLY 999.95
304300-003
Monitor Sold Separately. While Supplies Last.

HEWLETT PACKARD Pavilion

NEW LOW PRICE!



MMX™ intel inside pentium® PROCESSOR

Pavilion 7420

- 166MHz Pentium® Processor with MMX™ Technology
- 2.5GB Hard Drive • 32MB RAM
- 16X CD-ROM drive

1499.95
Price Break -200.00
1299.95
While Supplies Last. Monitor Sold Separately. D5248A#ABA

digital™



intel inside pentium PROCESSOR

Venturis FX5166

- 166MHz Pentium® Processor
- 1.6GB Hard Drive
- 16MB RAM • 8X CD-ROM
- 16-Bit Stereo Sound

ONLY 1299.95
FR-AA5AW-JB
Monitor Sold Separately. While Supplies Last.

1-800-670-9540
www.compusa.com

GET THE COMPUSA ADVANTAGE WITH MORE THAN 130 STORES NATIONWIDE FOR TECHNICAL SUPPORT AND SERVICE.

THE NEW COMPUSA DIRECT

GRAND OPENING VALUES!

OFFERS AVAILABLE THROUGH MAIL ORDER AND THE INTERNET ONLY FOR A LIMITED TIME!

Maxtor



1.6GB IDE Hard Drive
- 256k Cache Buffer
- Less Than 11ms Average Access Time
- 16.7mb/sec Data Transfer Rate

AVAILABLE THROUGH MAIL ORDER AND INTERNET ONLY.

Price Before Rebate 149.95
Mfr. Mail-in Rebate -50.00▲
99.95
K0181750A Price After Rebate

HI VAL



Recordable CD-ROM
- 6x Read/ 2x Write

Price Before Rebate 349.95
Mfr. Mail-in Rebate -50.00▲
299.95
USA6WI-OR7 Price After Rebate



Recordable CDs
- 74 Minutes of Audio
- 650MB of Data

Price Before Rebate 49.95
Mfr. Mail-in Rebate -20.00▲
29.95
622880 Price After Rebate

UPGRADE YOUR MEMORY

16MB SIMM Memory Upgrade



4x32, 72pin Non-Parity 49.95 4X32

8MB Upgrade	72pin, Non-Parity	2X32	29.95
32MB Upgrade	72pin, Non-Parity	8X32	129.95

2967051V100



Microsoft Natural Keyboard
- Correctly Position Your Hands
- Work in Comfort

Price Before Rebate 69.95
Mfr. Mail-in Rebate -10.00
59.95
Price After Rebate

Kodak digital science SOLUTIONS

Digital Camera DC-120
- Focus-free Lens
- Built-in Automatic Flash
- 3X Motorized Zoom Lens
- Resolution: 1280x960dpi



8524399

Price Break 999.95 -200.00 799.95

SAVE 100.00 ON AN EIGER 10MB MEMORY CARD WHEN YOU PURCHASE A KODAK DC-25, DC-50 OR DC-120 DIGITAL CAMERA!

SPOT The Smart Player of Technology

PageTak Color Scanner
- Optical Resolution 300x300dpi
- Scanning Resolution 4800dpi with Software Enhancement
- Sheet-fed Scanning Method



90104

Price Before Rebate 149.95
Instant Rebate -50.00
99.95
Price After Rebate

U.S. Robotics



Sportster 33.6/14.4 Data/Fax Internal Modem
- Upgradable to 56K
- 5-Year Warranty

001125-0

Price Before Rebate 69.95
Mfr. Mail-in Rebate -20.00▲
49.95
Price After Rebate

Megahertz



XJ2288B

Sportster 28.8/14.4 Data/Fax PC Card Modem

Price Break 149.95 -80.00▲ 69.95

HI VAL

USA16A-00W



Shipped in promotional packaging.

CD-ROM Drives
- 16X CD-ROM Drive
- IDE Controller Included

Price Before Rebate 119.95
Instant Rebate -40.00
79.95
Price After Rebate

20X CD-ROM Drive	USA20A-00W	99.95
20X Multimedia Kit	USA20A-01W6	149.95
24X CD-ROM Drive	USA24A-00W	119.95

NEC



100C-R-FR

SuperScript 100C Inkjet Printer Remanufactured
- Black Print 600x300dpi at 3ppm
- Color Print 300x300dpi at 2-4ppm

Price Before Rebate 129.95
Instant Rebate -30.00
99.95
Price After Rebate

EPSON



Stylus Pro Color Remanufactured Inkjet Printer C164001-FR
- 720x720dpi Black and Color
- Up to 4ppm Black
- 1ppm Color

Price Before Rebate 249.95
Instant Rebate -50.00
199.95
Price After Rebate

HEWLETT PACKARD



Hewlett-Packard LaserJet 6Lse Printer
- 600x600dpi at 6ppm Black
- More than 128 levels of grey

C2642A#ABA 399.95 C3994A#ABA

We'll beat any legitimate price in the current issue of this magazine on every product we sell. CompUSA Direct prices are available through mail order and the Internet and are valid until the next issue of this magazine, or 30 days from the date of this issue, whichever comes first. Our low price guarantee pertains to new, factory sealed products of the same brand and model number that are available and in stock at any local authorized retail store. Our guarantee does not apply to competitors' one-of-a-kind or other limited-quantity offers, special financing, installation, manufacturer's rebate, or when a bonus or free offer is included in the purchase. Some restrictions apply. Prices and specifications are subject to change without notice. We reserve the right to limit quantities. All Hayes modems, laser printers and some other printers, monitors and laptops must be sent to authorized service centers. Any typographical, photographic, or production error in products, pricing or offers is subject to correction. Due to manufacturers' restrictions, certain products may not be eligible for international shipment, and certain products may not be available via mail order. Please call for details. Monitor displays are simulated. Pentium, the Intel Inside and Pentium Processor logos are registered trademarks and MMX is a trademark of the Intel Corporation. Windows is a registered trademark of Microsoft in the U.S. and other countries. Packard Bell is a registered trademark of Packard Bell Electronics, Inc. IBM is a registered trademark and Aptiva and Total Image Video are trademarks of International Business Machines Corporation, used under license therefrom. All other trademarks are the property of their respective companies. Items, other than software, returned within ten (10) days from the date of purchase with the original receipt or invoice are eligible for refund or exchange. Unopened software may be returned within thirty (30) days for refund or exchange. Opened software may be returned for exchange only within ten (10) days from the date of purchase. A restocking will be charged on all returned items with missing boxes or packaging and returned printers with installed toner or inkjet cartridges. Refunds on purchases made with a credit card will only be credited to the same card. ▲In Connecticut only, instant rather than mail-in rebate. Superstore Savings Direct To You, CompPrice, The Low Price Period and America's Largest Computer Superstore are service marks of CompUSA Management Company. CompUSA and CompUSA Direct are registered trademarks of CompUSA Management Company. ©1997 CompUSA Management Company.

1-800-670-9540
www.compusa.com

INTERNATIONAL: 508-786-0600
OPEN 7AM-MIDNIGHT WEEKDAYS. 8AM-MIDNIGHT WEEKENDS AND HOLIDAYS.
Circle 193 on reader service card.

THE NEW COMPUSA DIRECT

Blowout Prices on Leading Products!

MicroWAR

YOUR SOURCE FOR PC SOFTWARE,

IOMEGA ZIP DRIVE

Includes Disk!

ONLY $149.95!

DR4602: Parallel
DR1050: SCSI
DR5279: Insider



New! HP LaserJet 5simx Printer

HEWLETT PACKARD

- 24ppm w/40MHz Risc Processor
- 100K Page Monthly Duty Cycle

PR12434

ONLY $3529.95

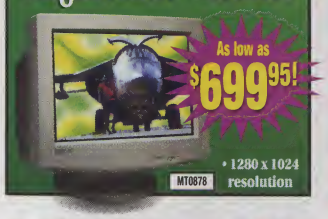


MAGNAVOX Magnavox 20" Monitor

As low as $699.95!

- 1280 x 1024 resolution

MT0878



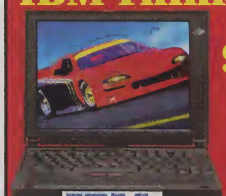
IBM ThinkPad 380

As Low As $1749!

CP4775

150MHZ PENTIUM® PROCESSOR/16MB/ 1.08GB HDD/12.1" SVGA DSTN DISPLAY.

IBM



Extensa 610CD

- 150MHz Pentium® processor
- 1.4GB Hard Disk drive
- 16MB RAM EDO RAM
- 10X CD-ROM drive
- 11.3" SVGA DSTN color display

CP4934

only $1799

Acer

Texas Instruments



Presario 4504

200MHz Pentium® processor, 2.1GB, 16MB RAM, 16X CD-ROM, Easy access buttons!

NEW!

FOR ONLY $999!

CP5379

COMPAQ

Monitor sold seperately.



2.0GB HARD DRIVE KIT

Maxtor

FOR ONLY $179.95*

DR6643

*Price reflects $30 manufacturer's mail-in rebate. Rebate expires 10/31/97. Ask for rebate certificate AA0818



COMPAQ DESKPRO 4000

- 233MHz Pentium® II processor
- 2.5GB hard drive
- 32MB RAM
- 8X CD-ROM
- 5 slots, 4 bays

CP5023

Only $2319!

Includes Network Interface Card. Monitor sold separately.



HEWLETT PACKARD LASERJET 5SE

ONLY $1049.95

PR12268

- 12 pages per minute
- 600 x 600dpi
- 4MB of memory expandable to 66MB



HEWLETT PACKARD 200MHz PENTIUM® MMX PROCESSOR!

ONLY $1499!*

RCP4849

Monitor sold separately.

- 200MHz Pentium® processor with MMX
- 3.8GB hard drive
- 32MB EDO RAM
- 16X CD-ROM
- Windows 95
- 33.6 modem

* Refurbished by the manufacturer to meet original factory specifications. While supplies last



NEW! COMPAQ DESKPRO 2000

- 166MHz Pentium® MMX
- 2.1GB hard drive
- 16MB RAM
- 5 slots, 5 bays desktop

CP5248

$1199!

Monitor sold separately.



COMPAQ DeskPro 2000

Affordable and Manageable Desktop PC's

CP3378: 133MHz Pentium® 16MB, 1.2 GB, DT $979

CP5248: 166MHz Pentium® MMX 16MB 2.1GB HDD, DT $1199

CP5252: 200MHz Pentium® MMX 16MB 2.1GB HDD, DT $1389

Desk Pro 4000

Best Value for Network Environments

CP5259: 166MHz Pentium® MMX 16MB 2.4 GB HDD, DT $1399

CP5256: 200MHz Pentium® MMX 32MB 2.4GB HDD, DT $1679

CP5253: 233MHz Pentium® MMX 32MB 3.2GB HDD 16X CD-ROM, MT $2129

Desk Pro 6000

High Performance Network PC's

CP5022: 233MHz Pentium® II 32MB 2.1 GB SCSI HDD PDCD Drive, DT $2629*

CP5024: 266MHz Pentium® II 32MB 4.2GB SCSI HDD 8X CD-ROM, DT $3179*

*While supplies last!

IBM IBM Thinkpads

CP4775: 380, 150MHz Pentium®, 1.08GB, 16MB RAM, 12.1" DSTN $1749

CP4773: 380D, 150MHz Pentium®, 1.35GB, 16MB, 8X CD-ROM, 12.1" DSTN $1999

CP4774: 380D, 150MHz MMX Pentium®, 2.1GB, 16MB, 8X CD-ROM, 12.1" TFT $3299

CP2907: 760EL, 120MHz Pentium®, 1.08GB, 8MB/72MB, 12.1" SVGA TFT $3199*

CP3558: 760E, 150MHz Pentium®, 2.1GB, 16MB/104MB, 12.1" XGA TFT $3499

CP3557: 760EL, 133MHz Pentium®, 2.1GB, 16MB/80MB, 12.1" SVGA TFT $3829

CP3559: 760ED, 133MHz Pentium®, 2.1GB, 16MB/104MB, 12.1" XGA TFT, 6X CD-ROM $3699

CP4434: 760XL, 166MMX Pentium®, 2.1GB, 16MB, 12.1" TFT $3829

CP4433: 760XL, 166MMX Pentium®, 2.1GB, 32MB, 12.1" TFT, WIN-NT $3999

CP4435: 760XD, 166MMX Pentium®, 3GB, 32MB, 8X CD, 12.1" XGA TFT $4789

*While supplies last!

TOSHIBA Toshiba Laptops

CP5166: 220CDS, 133MHz Pentium®, 1.34GB HDD, 16MB RAM, 10X CD-ROM, 12.1" SVGA DSTN $1949

CP5205: 50CT, 75MHz Pentium®, 772MB, 6.1 TFT, 1.8lbs. $1949

CP5204: 300CT, 133MHz MMX, Pentium® 1.51GB HDD, 33.6 Kbps, 10.4" TFT $3399

CP5209: 440CDX, 133MHz MMX Pentium®, 1.34GB HDD, 10X CD, 12.1 FAST SCAN™ $2399

CP5210: 440CDT, 133MHz MMX Pentium®, 1.34GB, HDD,12.1" TFT, 10X CD $3299

CP5208: 460CDT, 166MHz MMX Pentium®, 2.02GB HDD, 10X CD, 33.6 Kbps, 12.1" TFT $3799

CP3217: 500CDT, 120MHz, 1.2GB HDD,12.1" SVGA TFT, 6X CD $2399

CP5206: 520CDT, 166MHz, 2.1GB HDD, 33.6, 12.1" TFT, 10X CD $4299

CP5207: 530CDT, 166MHz MMX Pentium®, 2.1GB HDD, 33.6, 12.1" TFT, 10X CD $4699

*While supplies last!

HP LASERJET 6LSE PRINTER

FOR ONLY $399.95!

PR12310

- Prints up to 6ppm
- 600 x 600dpi
- HP's Resolution Enhancement technology for smoother grays and sharper blacks

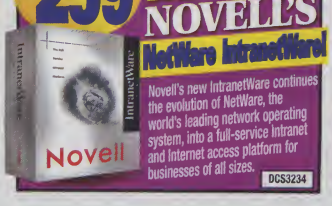
HEWLETT PACKARD



FROM $259 UPGRADE TO THE LATEST VERSION OF NOVELL'S NetWare IntranetWare!

Novell's new IntranetWare continues the evolution of NetWare, the world's leading network operating system, into a full-service Intranet and Internet access platform for businesses of all sizes.

DCS3234



1440dpi Printing!

EPSON

Stylus 600 $299.95!

- 6ppm
- 1440 x 720dpi output

PR12126



Microsoft Office 97 Standard Upgrade!

Includes Word, Excel, PowerPoint, and Outlook.

UPGRADE $179.95!*

SI2442

*Price after Microsoft $40 rebate for version upgrades. Price before rebate is $309.95.

Microsoft Office 97

Microsoft



- Visa and MasterCard accepted. Your credit card will not be charged until your order is shipped.
- Purchase orders subject to credit approval.
- All products covered by 30-day limited warranty. Defective software replaced immediately. Hardware replaced or repaired at our discretion.
- Connecticut, New Jersey, Illinois, Ohio, and Washington residents add applicable sales tax.
- Orders for in-stock items placed by 12:00 midnight (E) weekdays, (barring system failure, etc.) ship overnight by Airborne Express. (Some areas require an extra day).
- We reserve the right to limit quantities.
- Shipping charge $9.95 per order up to 7 lbs. $1.25 per lb. above 7 lbs.
- UPS ground service also available at current UPS rates plus $2.95 handling charge per order except COD. UPS orders placed by 3:00 p.m. (E) weekdays, ship same day.
- Actual freight charges apply for computers, hard disks, Bernoulli's, tape backups, monitors, and printers.
- Alaska, Hawaii, outside continental U.S., APO/FPO call for information.
- Item availability and price subject to change without notice.
- Some products not available outside U.S. Please call for more information.
- Not responsible for errors or omissions.

EHOUSE

FREE! JAVA TUTORIAL



*You pay only $2.95 shipping & handling. Shipped in promotional packaging. While supplies last. Ask for item #AAA0496.

HARDWARE AND PERIPHERALS

COMPAQ ARMADA 4110



- 100MHz Pentium® Processor
- 8MB RAM
- 810MB Removable Hard Drive
- Windows 95
- 11.3" SVGA DSTN Color Display
- 16-Bit Stereo Sound
- Lithium Ion Battery
- 3 Year Warranty

Ask For Item # CP3226

ONLY $999
WHILE SUPPLIES LAST!
QUANTITIES LIMITED TO 10 PER CUSTOMER

VISIONBOOK PLUS 4140



New! ONLY $1799

- 133MHz Pentium® Processor
- 1.4GB HDD
- 16MB RAM
- 12.1" HA-STN display
- 10X CD-ROM
- 33.6 Kbps Modem

HITACHI CP5239

IBM THINKPAD 765D

IBM New!

- 166MHz MMX Pentium® Processor
- 32MB RAM
- 3GB Hard Drive
- 256KB Cache
- 13.3" XGA TFT color display
- 8X CD-ROM

ONLY $6699



CP5040

TOSHIBA SATELLITE 220CDS

ONLY $1949



- 133MHz Pentium® processor
- 1.34GB hard disk drive
- 16MB EDO RAM
- 10X CD-ROM drive
- 12.1" SVGA DSTN display

CP5166 TOSHIBA

SEAGATE MEDALIST™

3.2 GB IDE HARD DRIVE
ONLY $249.95!



DR6333 Seagate

IOMEGA JAZ DRIVE

INTERNAL DRIVE ONLY $299.95!
INCLUDES DISK!



DR4840
EXTERNAL SHOWN, ONLY $399.95.
ASK FOR ITEM # DRI 1119

HEWLETT PACKARD DESKJET 855CXi PRINTER

ONLY $289.95* BLOWOUT!



- PC/Mac Compatible
- Up to 7ppm black
- 600dpi black

PR12411 *While supplies last.

LS-120 Diskette Drive from O.R. Technology

ONLY $99.95!*



BN4343
*Price reflects $50 mail-in rebate direct from Imation. Price before rebate is $149.95. Rebate expires 9/30/97.

SPORTSTER 56K MODEM

INTERNAL FOR ONLY $147.99*



BND2130
U.S. Robotics 56Kbps modem
External $167.99 BND2131 EXTERNAL SHOWN.
*After $50 Mail-in rebate. Valid 7/1/97-10/4/97

CREATIVE PC-DVD

- Watch theater-style video
- Retrieve up to 7 times more data than standard CD-ROM!
- Includes MPEG card!
- Listen to hi-fi audio

$499.99!



DR6307

D-200L DIGITAL CAMERA



ONLY $599!

INP0979

Storage Warehouse



IDE Hard Drives Starting at $179.95

SEAGATE HARD DRIVES (IDE)

DR5652: ST31276A, 1275MB $179.95
DR5767: ST32132A, 2113MB $199.95
DR5655: ST52520A, 2560MB $219.95
DR6333: ST33240A, 3240MB $249.95
DR6331: ST36450A, 6450MB $479.95

WESTERN DIGITAL HARD DRIVES (IDE)

DR6112: Caviar 11200, 1.2GB $179.95
DR5594: Caviar 21600, 1.6GB $189.95
DR5595: Caviar 22100, 2.1GB $209.95
DR5359: Caviar 33100, 3.1GB $259.95
DR5972: Caviar 34000, 4.0GB $339.95

IBM HARD DRIVES (IDE)

DR5732: Deskstar, 2.1GB $239.95
DR5731: Deskstar, 3.24GB $279.95

QUANTUM HARD DRIVES (IDE)

DR6544: Fireball ST 3162OST, 1.6GB $219.95
DR6543: Fireball ST 3216OST, 2.1GB $239.95
DR6542: Fireball ST 33240ST, 3.2GB $299.95
DR6541: Fireball ST 34320ST, 4.3GB $369.95
DR6524: Fireball ST 36480ST, 6.4GB $669.95

MAXTOR HARD DRIVES (IDE)

DR6069: Maxtor K0182500A, 2.5GB $199.95*
DR5661: Maxtor K0183500A, 3.5GB $249.95*
DR6390: Maxtor K0184300A, 4.3GB $299.95*
DR5880: Maxtor K0185120A, 5.1GB $349.95*
DR6557: Maxtor K0187000A, 7.0GB $449.95*

*Price reflects $30 manufacturer's mail-in rebate direct from Maxtor. Ask for rebate certificate AA0818. Rebate expires 10/31/97.

MICROPOLIS HARD DRIVES (SCSI)

DR6091: 4345NS, 4.55GB $769.95
DR6089: 4345WS, 4.55GB $799.95
DR6088: 3391NS, 9.1GB $1299.95
DR6093: 3391WS, 9.1GB $1299.95

QUANTUM HARD DRIVES (SCSI)

DR6527: Fireball ST 3216OST, 2.1GB $319.95
DR6526: Fireball ST 33240ST, 3.2GB $399.95
DR6523: Fireball ST 3420ST, 4.3GB $529.95
DR6524: Fireball ST 36480ST, 6.4GB $669.95

SEAGATE HARD DRIVES (SCSI)

DR6719: ST32272N, 2.26GB $549.95
DR6589: ST32272W, 2.26GB $629.95
DR5639: ST34371N, 4.35GB $749.95
DR5636: ST34371W, 4.35GB $799.95
DR5641: ST19171N, 9.1GB $1329.95
DR5637: ST19171W, 9.1GB $1399.95

WESTERN DIGITAL HARD DRIVES(SCSI)

DR6103: W/D Enterprise 2.17GB $499.95
DR6106: W/D Enterprise 4.36GB $759.95

IOMEGA DITTO TAPE DRIVES

DR5402: Ditto 2GB Int., 2GB $119.95
DR5401: Ditto 2GB Ext., 2GB $169.95

IOMEGA JAZ DRIVE

DR4840: Internal, 1GB $299.95
DRI1119: External, 1GB $399.95
ME6478: 1.0GB Jaz Disk $124.95*

*Quantity pricing available.

IOMEGA ZIP DRIVE

DR4602: Parallel Port $149.95
DRI1050: SCSI $149.95
DR5279: Insider SCSI $149.95
ME6387: 100MB Diskette $17.95

PINNACLE MICRO CD-R DRIVES

DR5513: RCD 4x4 Internal $739.00
DR5512: RCD 4x4 External $839.00

HP/COLORADO TAPE DRIVES

DR5623: T3000 Int., 8GB $169.95
DR5624: T4000ES Ext., 8GB $479.95

SEAGATE TAPE DRIVES

DR4709: TapeStor 800 Int., 800MB $99.95**
DR5707: TapeStor 800 Ext., 800MB $129.95
DR4769: TapeStor 3200 Int., 3200MB $179.95**
DR5708: TapeStor 3200 Ext., 3200MB $199.95
DR5180: TapeStor 8000 Int. SCSI, 8GB $369.95**
DR5182: TapeStor 8000 Ext. SCSI, 8GB $459.95**
DR5181: TapeStor 8000 Int. IDE, 8GB $369.95**

**Includes cartridge.

Free Catalog Subscription

Check the appropriate box(es) to receive a free, one-year subscription and mail this coupon to:
1720 Oak Street, P.O. Box 3014, Lakewood, N.J. 08701-3014

Name: _____

Address: _____ E-Mail: _____

City: _____ State: _____ Zip: _____

○ MicroWAREHOUSE ○ MicroSYSTEMS WAREHOUSE
○ MacWAREHOUSE ○ Data Comm™ WAREHOUSE

(Expect to receive your next issue within 4-6 weeks).

©Copyright 1997 MicroWarehouse, Inc. MacWAREHOUSE® is a division of MicroWarehouse, Inc. MacWAREHOUSE® and MicroWarehouse® are registered servicemarks of MicroWarehouse, Inc.

PPC7



To order, call toll-free 24 hours a day, 7 days a week

1-800-344-9309

On the Internet: www.warehouse.com

Fax: 908-905-5245

Order until 12:00 midnight (E) weekdays for overnight delivery of "in stock" items — only $9.95!*

*Shipping charge $9.95 per order up to 7 lbs., $1.25 per lb. over 7lbs.

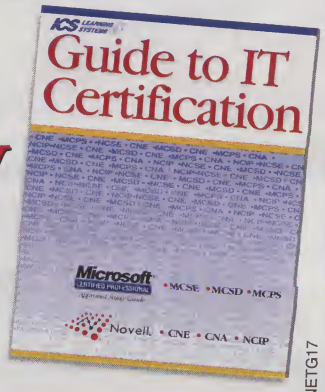


CALL FOR A FREE CATALOG!



Circle 361 on reader service card.

Microsoft and Novell Certification Made Easy



NETG17

This Guide to IT Certification is yours FREE with no obligation!

Find out:

- How certification can help you get ahead in your career
- Which certification is best for you
- Which exams you need to take to get the certification you want
- How to prepare for the exams — confidently, quickly, and easily.

Call the toll-free number today and order your FREE Guide to IT Certification. You get a clear, step-by-step description of what it takes to earn your certification and how to go about it. You also get information on ordering Microsoft- and Novell-approved exam preparation materials for each of the following:

- MCSE
- MCSD
- MCPS
- CNE
- CNA
- NCIP

Your best choice for exam preparation...

Interactive CD-ROM courseware assesses your abilities and helps you improve your skills in the areas you need most. This time-efficient system leads to quick mastery of exam topics.

Risk-free information

Even if you're just curious about becoming certified, this guide can help. There's no obligation, so call now!

Call now for a FREE copy of the *Guide to IT Certification!*

1-800-239-6223 ext. 2000
from 9 a.m. to 9 p.m., E.S.T.

Microsoft CERTIFIED PROFESSIONAL Approved Study Guide

Novell.

ICS LEARNING SYSTEMS 925 Oak Street, Scranton, PA 18515 • http://www.icslearn.com

---

WWW.CONVERGENCEPOINT.COM

THE HOTTEST BUYS IN COOL TECHNOLOGY ARE HERE!

CONVERGENCE POINT™

FREE STARTREK FIRST CONTACT SCREEN SAVER

ConvergencePoint is your source for the newest technologies and products on the Web. We keep tabs on the latest news and offer the coolest technologies at the Web's lowest prices. Everything's backed by our 30-day guarantee plus the manufacturer's warranty. So you can't go wrong unless you go somewhere else. Check us out today at www.convergencepoint.com and get a free Star Trek First Contact Screen Saver with any purchase. ConvergencePoint. *Where technology and shopping converge.*

Order On The Web: VISA MasterCard
www.convergencepoint.com/droct5
Or Call 1-800-582-8803 Ext. droct5



30-DAY MONEY-BACK GUARANTEE

The Sharpest DVD System Ever
DIAMOND MAXIMUM DVD KIT

Use your PC to turn your TV into an incredible DVD (Digital Video Disk) game and movie system. This complete Toshiba internal DVD-ROM upgrade kit pumps out crystal-clear sound and leaps far ahead of VHS or CD-ROM video.

- Plays DVD movies and MPEG2 video—it's the new PC multimedia standard
- Compatible with Pentium 90s+ and Dolby Digital Surround Sound
- Includes cables, MPEG-2/AC-3 decoder board and FREE DVD software
- Easy, step-by-step installation with FREE technical support



Prices That Make UltraQ Sound Even Better
ULTRAQ 3D AUDIO COMPONENT

Immerse yourself in QSound's amazing Virtual Audio™ 3D sound. In minutes, it connects to any audio system from your computer, CD or DVD player, game console or VCR. For realistic sound, UltraQ is the ultimate.

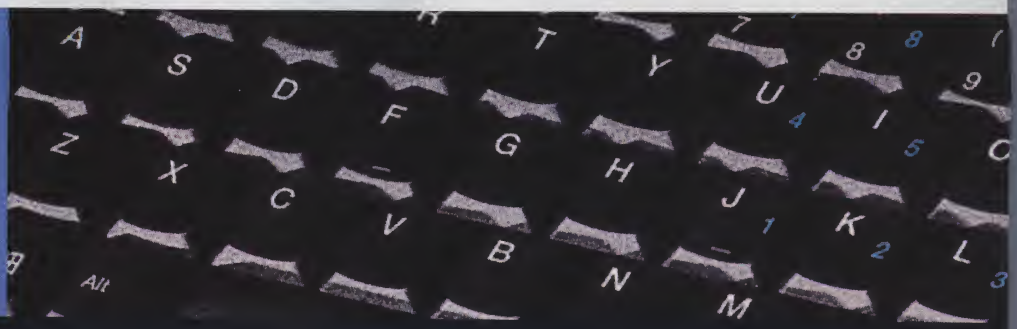
- Versatile and powerful, yet simple to use
- Accepts and enhances virtually any signal
- Mono-to-3D and stereo-to-3D automatic or manual translation modes
- Comes with two 3D presets optimized for music and games
- High-quality audio with low noise and distortion



Watch TV On Your Monitor
INSTANTTV

Enjoy your favorite TV programs—air or cable—on your monitor. Images look crisper and you don't even have to turn on your PC. With both S-Video and composite video inputs, InstantTV connects to a full range of video and PC sound equipment.

- Easy to install in minutes and includes user's manual
- Switches effortlessly between TV, video and S-video
- Supports 1 x NTSC/PAL composite video input
- Features Brightness/Contrast/Saturation control
- Comes with a handy remote, software, cables and 9V DC adapter



HOW FAST DO THESE NOTEBOOKS AND DESKTOPS GO? IT DEPENDS ON HOW FAST YOU DIAL.



To request a fax of weekly specials, call 800 950-1329 and enter document number 10015.

Forget everything you know about factory outlets. Well, almost everything. That's because at Dell Factory Outlet, you won't find damaged computers at skimpy markdowns.

And you won't find out-of-date technology. What you will find at Dell Factory Outlet are the award-winning lines of Dell® computer systems, completely refurbished and tested to meet our high standard of quality. Like notebooks featuring cutting-edge multimedia capabilities. And desktop systems featuring 266MHz Pentium® II processors. But here's the really big news. You can get all of this at incredible savings across the board.

Values so big, we call them **GIGABUYS!®** Inventories are limited to quantities in stock, and change regularly. So call us today. Don't miss out on your **GIGABUYS!**

REFURBISHED DELL OPTIPLEX™ DESKTOPS	REFURBISHED DELL DIMENSION™ DESKTOPS	REFURBISHED DELL LATITUDE™ NOTEBOOKS
200MHz PENTIUM™ PRO PROCESSOR	266MHz PENTIUM™ II PROCESSOR	166MHz PENTIUM™ PROCESSOR WITH MMX™ TECHNOLOGY
STARTING AT	STARTING AT	STARTING AT
$1549	**$1939**	**$2999**
Monitor Sold Separately	Monitor Sold Separately	Active Matrix Display

get a **GIGABUY!®**

TO ORDER, CALL TOLL FREE

1-888-274-4366

M-F 7AM-8PM, SAT. 9AM-6PM CDT

CALL FOR CURRENT AVAILABILITY AND PRICING. QUANTITIES LIMITED TO INVENTORY IN STOCK.

DELL® FACTORY OUTLET

MMX™ intel inside pentium® II PROCESSOR

The Dell Factory Outlet sells only refurbished computers. For pricing on new Dell computers, call (800) 284-0008.

Available configurations may vary. For a copy of our limited warranties, please write to Dell Factory Outlet, 8801 Research Blvd., Austin, TX 78758, Attn.: Warranties. See back of your invoice for additional warranty and return policy information. All sales FOB Austin. Sales receipts required for all returns/exchanges. Supplies limited to stock on hand. No rain checks. Prices and specifications subject to change without notice and valid in the U.S.A. only. All items are subject to Dell Factory Outlet's 14-Day Price Protection Policy. Dell, the Dell logo, Latitude, OptiPlex and Dell Dimension are registered trademarks, and "get a GIGABUY!" and GIGABUYS! are service marks of Dell Computer Corporation. Intel, the Intel Inside Logo and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. Dell disclaims proprietary interest in the marks and names of others. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Quantities limited. ©1997 Dell Computer Corporation. All rights reserved. Printed in the U.S.A. Reproduction in any manner whatsoever without the written permission of Dell Computer Corporation is strictly forbidden. Dell cannot be responsible for errors in typography or photography. 7002



Want flowers?

The world's largest market is in Aalsmeer, Holland.

Want computer products?

The world's LARGEST online computer market is here:



NEW on NetBuyer!
The Basement
Unbeatable deals on refurb'd and like-new brand-name PC products.

www.netbuyer.com

Now, there's a computer store so large it won't fit in a building, so organized you can find what you want in a click, with onscreen sales help so expert it tells you specs, current prices, availability on every product—and even shows you reviews. Where? Online at: **www.netbuyer.com**. Come and see. The service is free. It's new from *COMPUTER SHOPPER* and ZDNet.

WORLD-CLASS SHOPPING, BEST VALUES, WITH THE LARGEST ASSEMBLY OF TOP VENDORS ON THE PLANET SHOWCASING THEIR FULL LINE OF PRODUCTS. YOUR SURF IS OVER.

ZIFF-DAVIS



SEND CARD FOR FREE CATALOG!

✓ **CHECK ONE FREE CAREER CATALOG ONLY.**

- ❑ **Computer Programming**
- ❑ Microcomputer Servicing
- ❑ Visual Programming in C++
- ❑ PC Applications Specialist
- ❑ Desktop Publishing with PageMaker
- ❑ Telecommunications
- ❑ TV/ Video/Audio Servicing
- ❑ Electronic Music Technology
- ❑ Industrial Electronics & Robotics
- ❑ Networking with Windows NT
- ❑ Basic Electronics
- ❑ Building Construction
- ❑ Home Inspection
- ❑ Air Conditioning, Heating & Refrigeration
- ❑ Automotive Servicing
- ❑ Fiction/Nonfiction Writing
- ❑ Bookkeeping and Accounting
- ❑ Multimedia Programming
- ❑ Mastering Microsoft Office
- ❑ Introduction to PCs and the Internet

Name *(Please Print)* Age

Street *(No P.O. Box numbers please)*

City State Zip

A Division of The McGraw-Hill Companies

Accredited Member, Distance Education and Training Council

For career courses approved under G.I. Bill, ❑ check for details

5408-1097

NRI Schools

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST CLASS MAIL PERMIT NO. 10008 WASHINGTON, D.C.

POSTAGE WILL BE PAID BY ADDRESSEE

NRI Schools

4401 CONNECTICUT AVENUE NW
WASHINGTON DC 20078-3543

40,000 new programming jobs will open up by the year 2005 ...

Learn the Languages of Success!

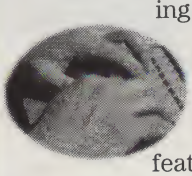
Only NRI at-home training, with state-of-the-art programming tools and online support, gives you in-demand programming skills in three of today's hottest computer languages: BASIC, C, and Visual Basic.

The Bureau of Labor Statistics forecasts that job opportunities for computer programmers will increase much faster than the average over the next ten years, with as many as 400,000 new jobs opening up by 2005. Now with NRI training, you can get the skills you need to build a top-paying career — even a full- or part-time business of your own — in this high-growth field.



Success begins with hands-on skills

With NRI's unique Discovery Learning Method, you get the hands-on programming experience you need to create the kinds of full-featured, powerful programs today's employers and clients demand.



- You **start with BASIC**, building your confidence enough to create and modify several programs of your own.
- You move on to **master C**, a sophisticated language that has become the programming tool of choice for a variety of applications.
- You then **explore Visual Basic**, a high-level, object-oriented language designed specifically for creating programs in Windows 95 environment.

Best of all, you practice programming in these important languages on the most powerful computer system available from any school today: *a multimedia computer system with a Pentium® 200 processor, 16 meg RAM, 1.6 gigabyte hard drive, Super VGA color monitor, 8X CD-ROM drive with 16-bit sound card, 33,600 baud fax/modem, Netscape Navigator™ Web Browser, BASIC interpreter, Power C and Visual Basic compilers, Windows 95, and more.*



FOR FASTEST SERVICE, CALL 1.800.321.4634

Only NRI makes it so easy to start a successful programming career. Log on to **www.mhcec.com** or send coupon today for your FREE catalog.

SEND TODAY FOR FREE CATALOG

NRI Schools
4401 Connecticut Avenue, NW
Washington, DC 20008

✔ **Check one FREE catalog only:**

- ❑ **COMPUTER PROGRAMMING**
- ❑ Networking with Windows NT
- ❑ Visual Programming in C++
- ❑ PC Applications Specialist
- ❑ Microcomputer Servicing
- ❑ Desktop Publishing with PageMaker
- ❑ Bookkeeping & Accounting
- ❑ Multimedia Programming
- ❑ Mastering Microsoft Office
- ❑ **NEW!** Introduction to PCs and the Internet

Name _____ Age _____

Address _____

City _____

State _____ Zip _____

A Division of The McGraw-Hill Companies 5408-1097

CDW COMPUTER DISCOUNT WAREHOUSE

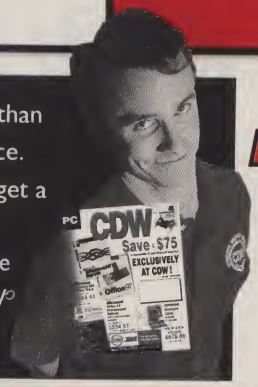
The right price.
The right advice.

TM

We offer you

COMPUTER DISCOUNT WAREHOUSE™

"Get more than just a great price. Call today and get a little empathy, some free advice and a free CDW catalog."



ViewSonic®



G773
17" color monitor

■ 17" SuperClear™ with Microfilter™ flat square screen CRT, 16" viewable image size ■ 0.26mm dot pitch ■ Maximum resolution: 1280 x 1024, 1024 x 768 at 87Hz

Call! CDW 91078

P775 ..... **Call!** CDW 91079
■ 17" Super Contrast flat square screen CRT, 16" viewable image size ■ 0.25mm dot pitch ■ Maximum resolution: 1600 x 1280; 1280 x 1024 at 88Hz

macromedia



Director 6 Multimedia Studio
For Windows 95 and NT

Powerful tools for multimedia and the web

Director 6 Multimedia Studio gives you the most advanced web authoring and playback capabilities available. Create Internet and hybrid CD+Internet applications with new drag-and-drop behaviors and live web authoring. With streaming Shockwave, there's no waiting for the entire file to download—even over small bandwidth connections!

Upgrade ..... **$479.57** CDW 84234

Full version ..... **$937.20** CDW 84233

Hardware, Software & Peripherals at *DISCOUNT* Prices!

NETWORKING PRODUCTS

Microsoft

Windows NT Server V4.0
Upg + 5-client license CD 359.43
Upg + 10-client license CD 479.72
Comp upg + 5-client license CD 359.43
Comp upg + 10-client license CD 479.72
Server + 5-client license CD 725.47
Server + 10-client license CD 999.96
Single-client license upg 15.48
Single-client license 29.88

Windows NT Workstation V4.0
Version upg CD 129.52
Single-client upg 229.39
Full version CD 269.94

Novell

IntranetWare
5-user CD 654.39
10-user CD 1316.20
25-user CD 2309.55
50-user CD 3119.90
Call for Novell IntranetWare upgrades.

IntranetWare for Small Business
1-user additional license 46.64
5-user additional license 216.83
Server with 5 licenses 594.80
Call for additional Novell IntranetWare multi-user configurations.

3Com

Impact IQ ISDN modem external 309.56
3C509B-TPO EtherLink III 10BT ISA 58.58
3C509B-COMBO EtherLink III combo ISA 119.89
3C509B-TPC EtherLink III coax ISA 71.92
3C905-TX Fast EtherLink XL 10/100 PCI 84.31
3C900-TPO EtherLink XL 10BT PCI 99.44
3C900-COMBO Ethernet XL PCI combo 119.99
OfficeConnect 4-port hub 68.46
OfficeConnect 8-port hub 119.76
SuperStack II Hub 7568112-port 10BT 499.48
SuperStack II Hub 24-port 10BT 859.44

HOT BUY



MAG INNOVISION
710V 17" color monitor
$459.70* CDW 79031

Allied Telesyn International

AT-2000T Plus 16-bit ISA bus adapter card 21.66
AUI/10BT slimline micro transceiver 24.13

BELKIN

OmniView PS/2 2-port 167.54
OmniView PS/2 4-port 228.56

Cisco Systems

FastHub 104T 4-port 100BTX hub 469.42
FastHub 10BT 8-port 100BTX hub 769.41
FastHub 216T 100BTX Fast Ethernet hub 1829.65

IBM

IBM PC Server 310
5/200 32MB no hdd 8X CD 2085.46
5/200 32MB 2.1GB 8X CD 2449.13
IBM PC Server 315
6/200 32MB no hdd 8X CD 2399.63
6/200 32MB 2.1GB 8X CD 2799.96
IBM PC Server 330
6/200 32MB ECC optional hdd 8X CD 3718.25
6/200 32MB ECC optional hdd 8X CD 4219.91
6/200 32MB ECC 2x2.25GB 8X CD 7625.74

intel

EtherExpress PRO 100 PCI 81.46
EtherExpress PRO/10+ PCI combo 118.60
Express 10/100 Fast Ethernet switch 1978.65
Express 10/100 Stackable 12-port hub 999.00

NETWORKING PRODUCTS

LINKSYS

StackPro 100 8-port 100BTX hub 454.61
StackPro 100 10-port 100BTX hub 516.25
Combo Ether16 LAN card 35.53
Combo EtherPCI LAN card 49.26
Combo PC/Ethernet card 10BT 91.93
EtherFast 2-port 10/100 switch 385.60
10BT 5-port workgroup hub 49.53

HOT BUY



HEWLETT® PACKARD
HP LaserJet 6MP printer
$859.55* CDW 74908

NETSCAPE

Netscape Communicator Std Edition 45.99
Netscape Communicator Professional Edition 59.29

Seagate Software

Backup Exec V6.11 for Windows NT
Single server edition 414.90
Enterprise edition 817.06
Desktop Management Suite V2.7
50-user 1285.96
100-user 2179.35

DATA STORAGE

iomega

Zip drive 100MB parallel 149.95
Zip drive 100MB external SCSI 149.95
Zip drive 100MB internal SCSI 149.95
Ditto Easy 800MB Travan internal 99.95
Jaz drive 1GB internal SCSI-2 ..... 299.95
Jaz drive 1GB external SCSI-2 ..... 399.95
Ditto drive 2GB internal 149.95
Ditto drive 2GB external 199.95
Ditto Dash Card 59.95

HEWLETT® PACKARD

HP Colorado T3000 3.2GB TBU 189.84
HP Colorado T4000s Travan internal 377.87
HP Colorado T4000s Travan external 459.11

Quantum

Fireball ST 1.6GB Ultra ATA 189.15
Fireball ST 2.1GB Ultra ATA 206.24
Fireball ST 3.2GB Ultra ATA 245.17
Fireball ST 4.3GB Ultra ATA 296.13
Fireball ST 6.5GB Ultra ATA 406.29

Seagate

1.2GB Fast ATA-2 ..... 174.44
2.1GB Fast ATA-2 ..... 188.23
2.1GB Ultra SCSI 519.21
2.5GB Fast ATA-2 ..... 227.53
4.5GB Ultra SCSI 869.36
9.1GB Ultra SCSI 1259.43

INPUT DEVICES

Connectix Color QuickCam V2.0 ..... 209.57
Epson PhotoPC digital camera 334.92
Epson PhotoPC 500 digital camera 499.00
Epson ActionScanning System II 269.42
Epson Expression 636 Exec scanner 799.00
Hewlett Packard ScanJet 5s 239.57
Hewlett Packard ScanJet 5p 378.68
Hewlett Packard ScanJet 4cse 679.55
Kensington Mouse-in-a Box 25.76
Kensington Expert Mouse V5.0 PS/2 ..... 91.77
Kensington Orbit 49.04
Kodak DC50 Zoom Digital Camera 699.00
Kodak DC120 Zoom Digital Camera 999.00
Microtek Color PageWiz compact scanner 149.39
Microtek ScanMaker E3 color flatbed 174.56
Microtek ScanMaker E6 std color flatbed 329.73
Microtek ScanMaker V300 color flatbed 139.41
UMAX Astra 600P scanner 199.81
UMAX Astra 600S scanner 235.65

INPUT DEVICES

UMAX Astra 1200S scanner w/PhotoDeluxe 438.58
Visioneer PaperPort mx scanner 163.89
Visioneer PaperPort ix scanner 179.37
Visioneer PaperPort Strobe scanner 299.00

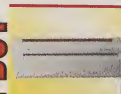
MONITORS

MAG Innovision 410V2 14" 0.28mm 209.18
MAG Innovision 510V2 15" 0.28mm 289.78
MAG Innovision 710V2 17" 0.28mm 459.70
Magnavox MB4010 14" 0.28mm 219.41
Magnavox MV5011 15" 0.28mm 277.56
Magnavox MB7000 17" 0.28mm 509.69
NEC MultiSync E500 15" 0.25mm 375.29
NEC MultiSync E700 17" 0.25mm 664.04
NEC P750 17" 0.25mm 858.26
NEC P1150 21" 0.28mm 1497.13
Princeton E050 15" 0.28mm 289.76
Princeton E070 17" 0.28mm 469.36
Princeton E090 19" 0.26mm 859.39
Samsung SyncMaster 500s 15" 0.28mm 289.00
Samsung SyncMaster 700s 17" 0.28mm 519.00
Sony Multiscan 100sx 15" PnP 0.25mm 329.17
Sony Multiscan 100sf 15" PnP 0.25mm 369.61
Sony Multiscan 200sf 17" PnP 0.25mm 775.83
Sony Multiscan 300sf 20" PnP 0.30mm 1395.25
ViewSonic E641 14" 0.28mm 209.35
ViewSonic E655 15" 0.28mm 294.93
ViewSonic G771 17" 0.27mm 578.35
ViewSonic P815 21" 0.25mm 1539.04

PC CARDS

3Com LAN PC Card combo 177.48
3Com 33.6 10BT LAN+modem 306.72
3Com 33.6 10BT LAN+modem combo 339.08
3Com 32-bit Fast EtherLink XL CardBus 147.57
Hayes ACCURA 33.6 10BT Ethernet 294.18
Hayes ACCURA 56K 199.65
Hayes OPTIMA 56K 207.04
Intel EtherExpress PRO/100 16-bit PC Card adapter 159.95
Intel EtherExpress PRO/100 32-bit Card Bus adapter 188.74
Motorola Montana 33.6 ..... 185.66
Motorola Mariner 33.6 ..... 349.54
New Media PC Card joystick adapter 57.51
Practical Peripherals 33.6 ..... 156.42
Practical Peripherals 56K Flex cellular 179.37
Simple 33.6 cellular 146.59
Simple 33.6 Communicator w/SimpleJack 149.20
Simple 56K Communicator 169.04
U.S. Robotics Ethernet adapter w/XJACK 109.00

HOT BUY



VISIONEER
PaperPort mx scanner
$163.89* CDW 81218

U.S. Robotics 33.6 cellular 239.00
U.S. Robotics 33.6 cellular w/XJACK 229.95
U.S. Robotics 33.6 w/XJACK 219.00
U.S. Robotics 56K w/XJACK 229.95
Xircom 33.6 ..... 189.55
Xircom 33.6 Ethernet 10BT 279.20
Xircom 33.6 Ethernet combo 316.91

MODEMS

Global Village Communication

TelePort 56K x2 faxmodem internal 156.41
TelePort 56K x2 faxmodem external 164.95

Hayes

ACCURA 33.6K faxmodem internal 97.60
ACCURA 33.6K faxmodem external 125.59
ACCURA 56K internal 147.01

MODEMS

Hayes

ACCURA 56K external 169.97
ACCURA 56K speakerphone internal 179.40
ACCURA 56K speakerphone external 169.36
OPTIMA 56K internal 269.41
OPTIMA 56K external 289.06
ACCURA ISDN 249.45

HOT BUY



3Com FastEtherLinkXL 10/100 PCI
$84.31* CDW 71029

Practical Peripherals

56K data/fax modem internal 139.95
56K data/fax modem external 179.34

U.S. Robotics

Sportster Series
Winmodem V.34 33.6 internal w/fax 76.24
V.34 33.6 internal w/fax 114.38
V.34 33.6 external w/fax 139.38
Voice V.34 33.6 internal w/fax 139.07
Voice V.34 33.6 external w/fax 159.90
56K x2 internal 197.99
56K x2 external 217.99
56K x2 Voice internal 217.99
56K x2 Voice external 237.99
ISDN 128K terminal adapter 229.66
Courier Series
V.34 33.6 internal w/fax 219.96
V.34 33.6 external w/fax 239.57
56K x2 internal 235.35
56K x2 external 268.17
I-modem ISDN V.34 faxmodem internal 244.84
I-modem ISDN V.34 faxmodem external 286.02
DataBurst ISDN U interface external 205.49
DataBurst ISDN S/T interface external 239.28

ZOOM

V.34I Plus 33.6 faxmodem internal 81.46
V.34X Plus 33.6 faxmodem external 99.30
56K internal 147.01
56K external 166.12

PRINTERS

EPSON

Stylus Color 400 ..... 199.00
Stylus Color 600 ..... 299.00
Stylus Color 800 ..... 449.00
Stylus Color 1520 ..... 799.00
Stylus Color 3000 ..... 1999.00
Stylus Photo 499.00

HEWLETT® PACKARD

HP DeskJet 340 portable inkjet printer 269.37
HP DeskJet 672C color printer 199.00
HP DeskJet 694C color printer 299.00
HP DeskJet 820Cse color printer 249.00
HP DeskJet 1000Cse color printer 499.00
HP LaserJet 5 printer 1038.13
HP LaserJet 6Lse printer 399.00
HP LaserJet 6MP printer 859.55
HP LaserJet 6Pse printer 799.00

LEXMARK

Color Jetprinter 2050 ..... 199.26
Color Jetprinter 3000 ..... 239.95
Color Jetprinter 7000 ..... 399.74
Optra E+ 379.49
Optra S 1250 ..... 1089.38
Optra S 1650 ..... 1255.23
Optra S 2450 ..... 2175.09
Optra SC 1275 ..... 3929.19

** Offer valid through 10/31/97 or while supplies last.*

800-886-4239

www.cdw.com/pcc

Visit CDW® on the Internet to sign up for Buyer's Edge for unadvertised specials!

©1997 CDW® Computer Centers, Inc.
200 N. Milwaukee Avenue, Vernon Hills, IL 60061 PCC3234G 10/97

a rare sales tool. it's called objectivity.

SYMANTEC.



pcANYWHERE 32 V8.0

For Windows 95 and NT

Symantec pcANYWHERE32 V8.0 gives you optimal 32-bit support for both Windows 95 and Windows NT. It also includes versions of pcANYWHERE for Windows V3.1 and DOS so you can run pcANYWHERE on all the platforms you use. pcANYWHERE supports the latest, fastest hardware to optimize your connection time.

Host only	$78.75	CDW 93320
Remote only	$89.78	CDW 93322
Host and remote	$65.67* ($70 rebate!)	CDW 93317

*After $70 mail-in manufacturer rebate. Restrictions apply.

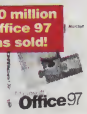
Office 97 Professional Edition

Office 97 Professional Edition upgrade with Bookshelf Basics	$268.30*	CDW 78404
Office 97 Professional Edition with Bookshelf Basics	$529.80	CDW 78403
Office 97 Professional Edition upgrade with Bookshelf Basics and Intellimouse	$294.51*	CDW 78405
Standard Edition upgrade	$179.13*	CDW 78407
Standard Edition	$445.21	CDW 78406
Small Business Edition competitive upgrade	$184.29*	CDW 82848
Small Business Edition	$449.52	CDW 82847

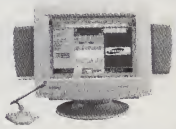
*After $40 mail-in manufacturer upgrade rebate. Restrictions apply. Offer valid while supplies last.

Microsoft

More than 10 million copies of Office 97 applications sold!



SAMSUNG ELECTRONICS



Shown with optional multimedia/Internet upgrade kit

SyncMaster 700s

17" color monitor

- 17" diagonal flat square tube, 15.7" viewable image size
- 0.28mm dot pitch
- Maximum resolution: 1280 x 1024 at 60Hz
- Invar shadow mask
- 3-year warranty with advance replacement

$519.00 CDW 85571

700b ..... **$579.31** CDW 85573

CDW® carries more than 20,000 products! If you don't see it, Call!

COMPUTERS

TOSHIBA

Libretto mini-notebooks
50CT 5/75 16MB 772MB 6.1" active ... 1929.45
Satellite & Satellite Pro notebooks
220CDS 5/133 16MB 1.34GB 12.1 dual 10X CD ... 1899.13
440CDX 5/133 MMX 16MB 1.34GB 12.1" dual 10X CD ... 2359.54
440CDT 5/133 MMX 16MB 1.34GB 12.1" active 10X CD ... 2799.55
460CDT 5/166 MMX 32MB 2.02GB 12.1" active 10X CD ... 3659.16
Portege notebooks
300CT 5/133 MMX 32MB 1.5GB 10.4" active ... 3369.46
660CDT 5/150 16MB 1.2GB 11.3" active 10X CD ... 3899.63
Tecra notebooks
510CDT 5/133 16MB 2.1GB 12.1" active 10X CD ... 2699.76
520CDT 5/166 MMX 32MB 2GB 12.1" active 10X CD ... 4159.45
530CDT 5/166 MMX 32MB 2GB 12.1" active 10X CD ... 4579.17
730XCDT 5/150 MMX 16MB 2GB 12.1" active 10X CD ... 3499.77
740CDT 5/166 MMX 16MB 3GB 13.3" active 10X CD ... 4659.23
740CDT 5/166 MMX 16MB 3GB 13.3" active 10X CD ... 4849.62
Infinia mini-towers
7161 5/166 MMX 32MB 2.38GB 12X CD ... 1649.89
7201 5/200 MMX 32MB 3GB 12X CD ... 1989.24
Equium desktops
5160D 5/166 MMX 32MB 2.1GB 12X CD ... 1418.82
5200D 5/200 MMX 32MB 2.38GB 12X CD ... 1549.64
6200D 6/200 32MB 3GB 12X CD ... 2118.60
Equium mini-towers
6200M 6/200 32MB 4.3GB 12X CD ... 2479.47
6260M 266MHz Pentium II 32MB 3.7GB 16X CD ... 2569.07

Acer / Texas Instruments

Extensa notebooks
610CD 5/150 16MB 1.4GB 11.3" dual 10X CD ... 1964.67
610CDT 5/150 16MB 1.4GB 11.3" active 10X CD ... 2549.84
660CD 5/166 MMX 16MB 1.35GB 12.1" dual 10X CD ... 2699.55
660CDT 5/166 MMX 16MB 2.1GB 11.3" active 10X CD ... 3179.04
TravelMate notebooks
TM7060 5/166 MMX 32MB 2GB 12.1" active 10X CD ... 4289.59
TM7063NT 5/166 MMX 32MB 3GB 12.1" active 10X CD ... 4949.69

AST

Ascentia notebooks
A60+ 5/150 16MB 1.44GB 12.1" active 10X CD ... 2658.65
A70+ 5/150 MMX 16MB 1.44GB 12.1" active 10X CD ... 3075.78
P70 5/150 MMX 32MB 2.1GB 12.1" active 10X CD ... 3559.65
P80 5/166 MMX 32MB 3GB 12.1" active 10X CD ... 3997.62
Bravo LC 6233 Series desktops
233MHz Pentium II 32MB 2GB Win95 ... 2099.23
233MHz Pentium II 32MB 2GB WinNT ... 2197.23
Bravo MS Series desktops
5/166 16MB 2GB ... 1245.78
5/166 32MB 2GB 16X CD ... 1487.26
5/166 32MB 3GB 16X CD ... 1575.06
5/166 MMX 32MB 2GB 16X CD ... 1514.69
5/166 MMX 32MB 2GB 16X CD ... 1609.48

COMPUTERS

AST

Bravo MS Series desktops
5/200 32MB 2GB 16X ... 1549.10
5/200 32MB 3GB 16X CD ... 1487.26
5/200 MMX 32MB 3GB 16X CD ... 1696.69
5/200 MMX 32MB 3GB 16X CD ... 1799.25
Bravo MS-T Series mini-towers
5/166 32MB 3GB 16X CD ... 1575.06
5/200 32MB 3GB 16X CD ... 1564.09
5/200 32MB 3GB 16X CD ... 1649.08
5/200 MMX 32MB 3GB 16X CD ... 1769.37
5/200 MMX 32MB 3GB 16X CD ... 1879.98
6/200 32MB 2.5GB 8X CD ... 1886.33

COMPAQ

Armada notebooks
1520DM 5/133 16MB 1GB 11.3 dual 10X CD ... 1989.47
1530DM 5/133 MMX 16MB 1.4GB 12.1" dual 10X CD ... 2499.00
1550DMT 5/133 16MB 1.4GB 12.1" active 10X CD ... 2999.00
1580DMT 5/150 MMX 16MB 2.1GB 12.1" active 10X CD ... 3499.00
4130T 5/133 16MB 1.08GB 11.8" active ... 2497.23
4131T 5/133 16MB 1.4GB 12.1" active ... 2849.00
4150 5/150 MMX 16MB 1.6GB 12.1" dual ... 2999.00
4160T 5/166 MMX 16MB 2GB 12.1" active ... 3999.00
7710MT 5/150 MMX 16MB 1.6GB 12.1" active ... 4399.00
7730MT 5/166 MMX 32MB 2.1GB 12.1" active ... 4999.00
7750MT 5/166 MMX 32MB 2.1GB 12.1" active ... 5799.00
Deskpro 2000 desktops
5133/1200 5/133 16MB 1.2GB ... 979.00
5133/2500 5/133 16MB 2.5GB ... 1089.00
5166X/2100 5/166 MMX 16MB 2.1GB ... 1199.00
5166X/3200 5/166 MMX 16MB 3.2GB ... 1309.00
5200X/2100 5/200 MMX 16MB 2.1GB ... 1389.00
5200X/3200 5/200 MMX 32MB 3.2GB ... 1579.00
5233X/3200/CDS 5/233 MMX 32MB 3.2GB 16X CD ... 1949.00
Deskpro 2000 mini-towers
5166X/3200 5/166 MMX 16MB 3.2GB 16X CD ... 1619.00
5200X/3200/CDS 5/200 MMX 32MB 3.2GB 16X CD ... 1769.00
6200/2500/CD 6/200 32MB 2.5GB 8X CD ... 2109.00
Deskpro 4000 desktops
5166X/2400 5/166 MMX 16MB 2.4GB ... 1389.00
5166X/3200 5/166 MMX 32MB 3.2GB ... 1599.00
6233X/2500/CDS 233MHz Pentium II 32MB 2.5GB 8X CD ... 2319.00
5200X/2400 5/200 MMX 32MB 2.4GB ... 1689.00
5200X/3200 5/200 MMX 32MB 3.2GB ... 1759.00
Deskpro 4000 mini-towers
5166X/3200/CDS 5/166 MMX 32MB 3.2GB 16X CD ... 1799.00
Deskpro 6000 desktops
6200/4200/CDS 6/200 32MB 4.2GB ... 2789.00
6233X/2150/PDS 233MHz Pentium II 32MB 2.15GB ... 2629.00
6266X/4200/CDS 266MHz Pentium II 32MB 4.2GB 8X CD ... 3179.00
Deskpro 6000 mini-towers
5166X/2150/PDS 5/166 MMX 32MB 2.15GB ... 1849.00
5200X/4200/PDS 5/200 MMX 32MB 4.2GB ... 2579.00
6200/4200/PDS 6/200 64MB 4.2GB ... 3099.00
Presario desktops
2120 5/150 24MB 2GB 8X CD ... 999.00
2200 5/180 16MB 1.6GB 8X CD ... 799.00
Presario mini-towers
4504 5/20016MB 2.1GB 16X CD ... 999.00
4814 5/233 MMX 32MB 6.5GB 24X CD ... 2299.00
4824 5/233 MMX 32MB 6.5GB 24X CD lomega Zip drive ... 2699.00

COMPUTERS

HEWLETT PACKARD

HP OmniBook 800 Series notebooks
800CT 5/166 MMX 16MB 2GB 10.4" active ... 3659.96
HP OmniBook 5700 Series notebooks
5/150 MMX 16MB 1.86GB 12.1" active ... 3577.28
5/166 MMX 16MB 1.86GB 12.1" active ... 4019.79
5/166 MMX 16MB 1.86GB 12.1" active ... 4075.77
5/166 MMX 32MB 2.79GB 12.1" active ... 4548.28
HP Vectra VL Series 5 PC desktops
5/166 16MB 1.6GB ... 1166.30
5/166 MMX 16MB 2.5GB 8X CD ... 1377.09
5/200 MMX 32MB 2.5GB 8X CD ... 1598.63
5/233 MMX 16MB 2.5GB ... 1598.12
HP Vectra VL Series 5 PC mini-towers
5/133 16MB 1.6GB ... 1219.44
5/166 16MB 2.5GB ... 1229.50
5/166 MMX 16MB 2.5GB 8X CD ... 1439.22
5/233 MMX 32MB 4GB ... 1889.76
HP Vectra VE Series 3 PC desktops
5/133 16MB 1GB ... 1028.19
5/133 16MB 1.6GB ... 999.36
5/166 16MB 1.6GB ... 1038.97
5/200 16MB 1.6GB ... 1048.60
HP Vectra 500Series desktops
525CD 5/133 16MB 1.2GB 8X CD ... 999.49
520MCx 5/166 16MB 1.6GB 16X CD ... 1327.64
HP Vectra 500 Series mini-towers
525CD 5/166 16MB 1.6GB 16X CD ... 1234.78
525MCx 5/166 MMX 24MB 2.5GB 16X CD ... 1549.65
525CD 5/200 MMX 24MB 2.5GB 16X CD ... 1588.65
525MCx 5/200 MMX 32MB 2.5GB 16X CD ... 1936.70
HP NetServer E40 Series towers
6/180 16MB no hdd 8X CD 10/100 Ethernet ... 2054.28
6/180 16MB 2.1GB 8X CD 10/100 Ethernet ... 2314.03
6/200 32MB 2.1GB 8X CD 10/100 Ethernet ... 2689.39

IBM

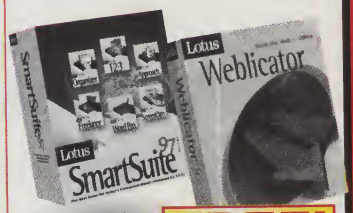
ThinkPad notebooks
380 5/150 16MB 1.08GB 12.1" dual ... 1699.46
380D 5/150 16MB 1.35GB 12.1" dual 8X CD ... 1999.50
380D 5/150 MMX 16MB 2.1GB 12.1" active 8X CD ... 3287.43
560 5/133 8MB 2.1GB 11.3" dual ... 1899.56
560 5/133 8MB 2.1GB 12.1" active ... 3789.45
560E 5/150 MMX 16MB 2.1GB 11.3" dual ... 2599.86
560E 5/166 MMX 16MB 2.1GB 12.1" active ... 4186.26
760ED 5/133 16MB 2.1GB 12.1" active 6X CD ... 3739.72
760E 5/150 16MB 2.1GB 12.1" active ... 3578.40
760XL 5/166 MMX 16MB 2.1GB 12.1" active ... 3869.88
760XL 5/166 MMX 32MB 2.1GB 12.1" active ... 4064.04
760XD 5/166 MMX 32MB 3GB 12.1" active 8X CD ... 4679.37
765L 5/166 MMX 32MB 3GB 13.3" active ... 5999.71
765D 5/166 MMX 32MB 3GB 13.3" active 8X CD ... 6659.22
Aptiva Series mini-towers
C3E 5/233 MMX 32MB 4.2GB 16X CD ... 1939.05
C3D 5/233 MMX 32MB 4.2GB 8X CD ... 2699.00
S9C 5/200 MMX 32MB 4.2GB 16X CD ... 1939.05
S3C 5/233 MMX 32MB 4.2GB 16X CD ... 2299.00
S35 5/233 MMX 48MB 6.4GB 24X CD ... 2699.00
PC300GL Series desktops
5/166 16MB 1.2GB ... 999.63
5/166 16MB 2.5GB ... 1109.18
5/166 16MB 2.5GB 16X CD ... 1366.50
5/166 MMX 32MB 2.5GB ... 1419.28
PC300XL Series desktops
233MHz Pentium II 32MB 2.5GB 16X CD ... 2296.14
233MHz Pentium II 32MB 2.5GB ... 1999.36
266MHz Pentium II 32MB 4.2GB 16X CD ... 2659.12
266MHz Pentium II 32MB 4.3GB 16X CD ... 2969.24

Web site exclusive!

Special offer for PC/Computing web users only!

FREE
Lotus Weblicator with Lotus SmartSuite97 purchase

Visit www.cdw.com/pcc_wow for details...



FREE!

CDW® TELEPHONE HOURS
Sales
Monday-Friday 7 a.m.-9 p.m. CT • Saturday 9 a.m.-5 p.m. CT
Tech Support for Customers
Monday-Friday 9 a.m.-9 p.m. CT • Saturday 9 a.m.-5 p.m. CT

BUY WITH CONFIDENCE
CDW® IS A NASDAQ TRADED COMPANY
TICKER SYMBOL CDWC D & B rated 5A1 Duns 10-762-7952

DISCOVER VISA MasterCard American Express Canada

Credit card charges are not submitted until time of shipment. For your protection, we ship only to your credit card's verified billing address. Freight is calculated as the carrier's actual freight charge plus insurance and packaging material. The cost of insurance is 0.35% (0.0035) of the order total. Packaging materials will not exceed $4.00 for single package shipments or $6.00 for multi-package shipments. Before returning any product, you must obtain an RMA number. Non-defective returns are subject to a restocking fee. Software, chips and other electronic components are not returnable. Allow 10 business days for shipping when paying by personal check. All pricing subject to change. For all prices, products and offers, CDW reserves the right to make adjustments due to changing market conditions, product discontinuation, manufacturer price changes, errors in advertisements or other extenuating circumstances. All trademarks and registered trademarks are the sole property of their respective owners.

COMPUTER DISCOUNT WAREHOUSE™

CDW® offers toll-free technical support!

Circle 146 on reader service card.

800-886-4239

www.cdw.com/pc

©1997 CDW Computer Centers, I

100% Pure Java

"Write Once, Run Anywhere"™ A program written in 100% Pure Java™ ensures portability across all Java™ compatible platforms or devices. All the companies on this page have been certified as 100% Pure Java or are going through the testing process at KeyLabs, an independent testing center (www.keylabs.com/100 percent). 100% Pure Java. Pure and simple.

Business Communications

NetFactory, Inc.
NetCharts: HTML-configurable, Java-based business-charting package
P: 301-625-5600
F: 301-625-5678
http://www.netcharts.com

Recital Corp
KALEIDOSCOPE: Internet/Intranet realtime client/server dvlpmt. suite
VISIT OUR WEB SITE NOW!
www.recital.com

Chat Solutions

Paralogic Corporation
ParaChat: World's most popular Java Chat
P: 510-795-0559 F: 510-795-6181
http://www.paralogic.com

Development Tools

ProtoView Development
JavaBeans Components
P: 800-231-8588
F: 609-655-5353
www.protoview.com/java

Electronic Publishing

Concurrent CAE Solutions
Test Drive EDA Browser™
Electronic Design Automation
P: 408-988-8170 F:408-988-8171
http://www.ccaes.com

Internet Commerce

bidnask.com
Realtime Product Trading
contact:sales@bidnask.com
F: 941-732-5414
http://www.bidnask.com

Java Testing

KeyLabs Inc.
Official 100% Pure Testing & Services
P: 888-keylabs F: 801-377-5439
www.keylabs.com

Productivity/Groupware

WebMan Technologies, Inc.
Timecruiser-Web event mgmt.
P: 888-202-3521
F: 201-244-7859
www.timecruiser.com

Sys. Administration S/W

InterSoft Argentina S.A.
Process Control/Automation
P: +54-1-318-8900
F: +54-1-318-8999
www.inter-soft.com

Workflow

A-Frame Software Company
Intra/Internet workflow
Across multiple companies
Fully internationalized
A-Frame.com P: 800-237-2633



Cloudscape delivers JBMS, the leading Java-SQL database for advanced distributed applications.

Contact Information:
Cloudscape,Inc.
180 Grand Ave.
Suite 300
Oakland, CA 94612

ph: 510.873.0900
fax: 510.873.0909
email: info@cloudscape.com
url: www.cloudscape.com

From Digital Camera to Web Animation
One Tool, One Seamless Process.

The first inexpensive paint program that lets you capture, edit, assemble animated GIF images and generate animated Java applets using one seamless creation process.



Vivi Painter™
WiGiTek Corporation

For a Limited time $19.95
SRP $29.95

http://www.wigitek.com Toll free:(888)549-3719

isc
ISC Consultants, Inc.
your intranet solutions company

Your website looks great!
Now make it useful.

business@isc.com
212 477-8800
www.isc.com

Java Select Member

Software Developers:

Protect your Java Apps from piracy with LicenseServ®



- Create time limited demo copies.
- Stand-alone or networked environments.
- Licensing models include concurrent, usage-based, feature licensing, and more.
- 100% Pure Java Certified.

Sun VALUE ADDED RESELLER

Call now for a free evaluation copy
1-888-553-0334

Wyatt River Software

http://www.wyattriver.com e-mail: info@wyattriver.com (408)327-8840

LicenseServ, Wyatt River Software and the Wyatt River Software logo are trademarks or registered trademarks of Wyatt River Software, Inc.

Marketplace

MORE INFORMATION AND LINKS JUST ONE URL AWAY — *WHEN YOU NEED MORE INFORMATION TO* make your buying decisions than these ads provide, go to ZDNet **Marketplace**. Search a database of hundreds of ads by company, product and/or key words. Vendors can update their prices and product offerings daily. Plus, link to the web sites of advertisers for even more information. (Look for @www. under the ads in this section or for @ in the index below to see which advertisers are linked.) Bookmark www.marketplace.zdnet.com for more ads, more information and links to advertiser web sites.

Hardware

Includes:
Bar Coding, Boards, Computer Systems, Input Devices, Mass Storage Devices, Networking, Online Services, Security

1-800-Batteries 365
American Microsystems 355
Bason Computer .....366@
Boss Micro .....365@
BC Computers .....366@
Brain's Computer & Electronics .367@
Citycom 366
Club PC Mobile 354
Coast to Coast Memory 365
Compustar Computers .....368@
Comtrade .....356@
Cybergate, Inc. 355
Eco Electronics .....370@
Future Computing Solutions ....367@
Gigatrend .....355@
H.I.Q. .....369@
Highwave Technologies, Inc. 368
Hiway Technologies Inc. .....355@
Infoboard 358
Intol Computers 365
Iris .....354@
Memory Depot 366
Memory Liquidators 365
Memory Online .....366@
Neptune Computer Corp. .....367@
Nine Net Avenue .....357, 359@
Pick Internet 358
Rose Electronics .....353@
Slip.Net .....358@
Source Computing .....354@
Tac Systems .....361@
VRA Battery Replacement 366
Web 2010 .....358@
Worthington Data Solutions ....354@

Software

Includes:
Business Applications, Education, Financial/Accounting, Internet, Public Domain, Adult, (see p. 371)

AICS .....362@
ARDI 370
Clearview Software .....367@
Cleveland Institute Of Elect 368
Designer Checks Inc. 364
Dydacomp Development 358
Forefront Direct .....362@
Form Systems 364
Grantham 368
Keystone Learning Systems ....363@
Lantell Systems 364
Micro 2000 .....360@
School of Computer Training 368
Software602, Inc. .....362@
V Communications Inc. .....360@
Voice Recognition 362
WACP .....370@

Special Services

Includes:
Accessories, Career Opportunities, Data Conversion, Disk & CD Rom Duplication, General, Supplies

AMC Direct .....370@
Cd/Works 370
Compucover Inc. .....367@
Computer Discounters .....364@
Cornerstone 370
Costas Systems .....370@
Data Mechanix .....370@
Intelligent Technologies, Inc. 367
Microstore 367
Neato .....364@

ACCOUNT REPRESENTATIVES
800-825-4237

♦ Carolyn Ballo ♦
Sales Manager
MIDWEST
1-800-825-4237

♦ Anna Pizarro ♦
Sales Representative
SOUTHEAST
212-503-5199

♦ Jason Webby ♦
Sales Representative
NORTHEAST/ FOREIGN
212-503-3632

♦ Karen Yedvab ♦
Sales Representative
WEST COAST
212-503-5142

Breakthrough
IN KEYBOARD MONITOR SWITCHES

Multi Platform & On-Screen Display



SEE US AT NETWORLD+INTEROP
October 8-10, Atlanta, GA
BOOTH #7622

BREAKTHROUGH the clutter of multiple keyboards, monitors, and mice with this latest **INNOVATION** from Rose. This switch has every feature you asked for:

- Switches several servers or computers to a single monitor, keyboard, and mouse
- Supports any mix of PC, Apple, Sun, RS 6000, HP 700 series, DEC Alpha, SGI, or other computers from any keyboard or mouse
- Front panel has keypad for easy selection of computers and configuration
- Front panel display shows computers name and other information
- Command to switch can come from your keyboard, front panel, or RS232 port
- Simple to use keystrokes switch computers for fast and easy control
- Built in daisy-chaining to support up to 256 computers
- Flash memory for future upgrade of features
- Easy to use **OverView™** system gives control and status with on-screen graphics
- Many other features!

ROSE ELECTRONICS INVENTED the first keyboard-monitor switch. We have an extensive line of keyboard and video control products for any application

CALL TODAY FOR FREE CATALOG:
- *Keyboard/Video Control*
- *Print Servers*
- *Data Switches*

800-333-9343



VISIT OUR WEB SITE AT WWW.ROSEL.COM

ROSE ELECTRONICS



10707 STANCLIFF ROAD HOUSTON, TEXAS 77099 TEL 281-933-7673 FAX 281-933-0044

@www.

ZDNet Marketplace Shop www.marketplace.zdnet.com Hundreds of ads, plus links to the web sites of @www advertisers.

PREMIER
ZDNet Marketplace Shop www.marketplace.zdnet.com. Hundreds of ads, plus links to the web sites of @www. advertisers.

Bar Code Headquarters

- Offices in USA and Europe
- Quality Support from the Manufacturer
- USA Made Products
- Innovative, Reliable products

Portable Readers
for IBM PC, Mac & Serial Computers

- Battery Operated Batch Data Collector
- Serial/Kybd Upload
- Scan or Key Data
- Wand, CCD or Laser
- Code 39, UPC/EAN, 128, 2 of 5, 93, etc.
- Inventory Programs
- Custom Programs
- Voice messages too!
- Non-portable mode
- Complete Units Start at – $759



2-Way Radio Reader



- Scan and Key Data On-line 1000' from Base
- Computer Sends Display and Voice Messages
- 16 Terminals per Base
- Controlled from VB, Access, C, Delphi, etc.
- Wand, Laser, CCD
- Base Station – $845
- R/F Terminal – $1095
- R/F Laser Terminal – $1790

Bar Code Readers
for IBM PC, Mac and UNIX Terminals

- Attaches as 2nd Keyboard in seconds.
- No Software Changes Needed
- Code 39, 93, UPC/EAN, 2 of 5, 128
- Wand, Magstripe, CCD, Laser, Slot Badge



- Complete Wand only Reader – $299
- Complete with Cordless CCD Scanner – $599
- Complete with "Laser-like" CCD Scanner – $474
- Complete with Triggered Laser Scanner – $659

Bar Code Fonts for Windows™



- For Dot Matrix, Deskjet or Laser Printers.
- Code 39, UPC/EAN, Code 128, Codabar, 2 of 5
- BarFont™ inserts bar codes into any font based Windows program using Hotkey, Paste or DLL.
- LabelRIGHT™, a complete label system, prints Bar Codes, Big Text, and PCX-BMP Graphics.
- Bar Code Fonts for Windows, complete – $199
- LabelRIGHT for Windows $295, (DOS – $279)

Ordering is Easy! 800-345-4220
In US or Canada, Or Call 408-458-9938

- Same Day Shipping
- 30 Day Money Back Guarantee
- Direct from Manufacturer
- Free "800" Support
- Free UPS Blue in USA

In Europe call: 353 1 6614 566
Web: www.barcodehq.com

WORTHINGTON DATA SOLUTIONS

CALL FOR FREE CATALOG AND BAR CODE PRIMER!

@www.

IRISPEN
The Smallest and most Portable scanner

Pen-sized portable Line Scanner with powerful text recognition (OCR) reads any printed information and puts it directly into your application, be it notes in a word-processor, adresses in a database, figures in a spreadsheet etc.



3 VERSIONS AVAILABLE

IRISPen Translator™
- inputs printed text directly into your application
- translates German, French or Italian to English and vice-versa (English to Japanese available as well)
- contains a speech module to improve your pronunciation

$399

IRISPen 3.0 Executive™
- inputs printed text directly into your application in 26 languages
- recognition of all popular barcodes, handprinted numbers
- contains a speech module reading to you as it scans

$349

IRISPen 3.0™
- inputs printed text directly into your application in 26 languages

$249

Product of the Year ★★★★½ SVM
Windows News
ID Automatic News
Imaging Editors' Choice

IMAGE RECOGNITION INTEGRATED SYSTEMS

Contact us at (800)447-4744 or (561)395 7831 or fax us at (602)507-3418 Email us at iris@hooked.net and visit our site at www.irisusa.com

@www. or CIRCLE 401 ON READER SERVICE CARD

LOWEST PRICES ON THE NET!
35,000 PRODUCTS ON-LINE!

- Live auction - bids start at $5
- 20,000 spec sheets
- Product GIVEAWAYS - WIN!
- News and Announcements

GET IT ALL AT http://www.club-pc.com

BRAND NAME SAVINGS!	LOW, LOW PRICE!	NOTEBOOK BLOWOUT!
SONY.	Quantum	TOSHIBA
20SF2 20" Trinitron Color Monitor	Fireball Stratus 3.2GB IDE Hard Drive	Satellite Pro 440CDT 133 MHz MMX
$1299	$218	$2908

Local 714-707-3082
Fax 714-768-7307
Prices subject to change without notice. 60 Parker, Irvine, CA 92618

ORDER ONLINE OR CALL 1-800-216-1256
ORDER 6AM - 6PM PDT • MON - FRI

ClubPC® Source Code 81107

MEMORY
SOURCE COMPUTING
800/900-4599
http://www.sourcecomp.com
Voice 954/725-9777 • Fax 954/725-9977

DISCOVER NOVUS VISA FedEx MasterCard

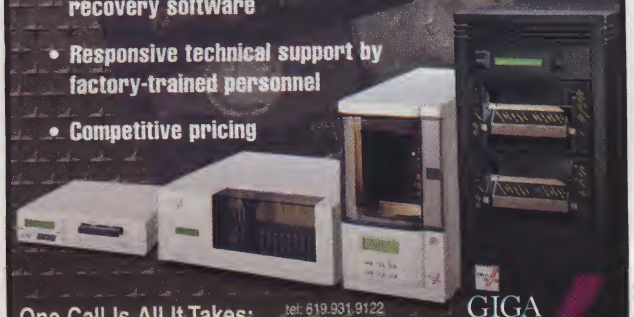
LOWEST PRICES GUARANTEED!

@www. or CIRCLE 402 ON READER SERVICE CARD

ONE STOP SHOPPING

Everything you need for backup is at GigaTrend

- 4mm, 8mm, DLT, Libraries, Multi-drive configurations
- Novell NetWare, Windows NT/95, UNIX, AS/400
- Leading enterprise backup and disaster recovery software
- Responsive technical support by factory-trained personnel
- Competitive pricing



One Call Is All It Takes:
800-743-4442

tel: 619.931.9122
fax: 619.929.0846
e-mail: backup@gigatrend.com
http://www.gigatrend.com

GIGA TREND
Backing Up The World™

@www.

The Power to be Efficient


CCD Packages


Wand Packages



Label Design Software

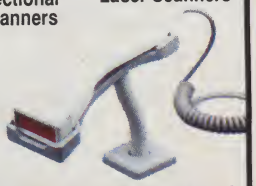


Portable Readers


Omnidirectional Laser Scanners

Hands-Free Laser Scanners


Mag Stripe Packages




Laser Packages

AMERICAN MICROSYSTEMS, LTD

800 648 4452

FAX 817 685 6232 • WWW.AMLTD.COM
2190 Regal Parkway • Euless, Texas 76040

Call Now for a Free Catalog!

Lifetime toll-free support • 13 years in business
Thorough quality control
Same-day shipping • Made in the USA

SPECIAL DEALER PRICING AVAILABLE!
WE ALSO OFFER SPECIAL VOLUME PRICING. CALL FOR DETAILS



Surprised at your web hosting rates?!

Then call ValueWeb today, the world's most affordable web hosting service!

$19.95/MO
No Minimum Contract!

- Domain name registration provided (http://www.your_name.com/)
- Access to our SSL secure server
- Your own CGI-bin directory
- Anonymous Virtual FTP
- E-mail forwarding
- Your own FTP account
- T3 connection to the Internet
- 1000 Mb of data transfer per month
- Daily tape backup
- Choice of UNIX and Microsoft® Front Page
- Detailed web usage statistics
- Auto E-mail responders
- 25 Mb of disk space
- Truespeech® server support included (real time audio)
- Same day setup
- POP3 E-mail accounts

30 Day Money Back Guarantee!

ValueWeb℠

Ask about our reseller program!
1-888-W$_9$E$_3$-H$_4$O$_6$S$_7$T$_8$-U$_8$

Save $10 When You Register Online! • www.valueweb.net • E-mail: sales@valueweb.net

@www. or CIRCLE 403 ON READER SERVICE CARD

The world hosts with Hiway



For high performance web hosting, more people turn to Hiway than anyone else.

Serving more than 30,000 web sites for customers in over 80 countries, Hiway is the worldwide leader in web hosting. With so many choices, why does everyone pick Hiway?


The world leader in FrontPage™ hosting

- ✓ 3 T3 lines to diverse backbones
- ✓ Silicon Graphics WebFORCE Servers
- ✓ Industrial-strength Cisco routers
- ✓ 99.5% uptime—guaranteed!
- ✓ Full generator backup
- ✓ 24 x 7 network operation center
- ✓ 40 terrabyte tape archive system
- ✓ 24 x 7 multilingual support
- ✓ Accounts set up within a few hours
- ✓ Domains registered within 24 hours
- ✓ 30 day money back guarantee
- ✓ Serving over 30,000 domains

PLANS FROM $24.95 PER MONTH

Reseller Opportunities Available

(800) 339-HWAY
www.hway.net
(561) 989-8574

Hiway Technologies
THE WORLDWIDE LEADER IN WEB HOSTING

@www. or CIRCLE 404 ON READER SERVICE CARD

PREMIER ZDNet Marketplace Shop www.marketplace.zdnet.com Hundreds of ads, plus links to the web sites of @www advertisers.

PREMIER
ZDNet Marketplace Shop www.marketplace.zdnet.com. Hundreds of ads, plus links to the web sites of @www. advertisers.

The Lightning PC Systems.

Best Buy BC5/200

- 200MHz Pentium® Processor w. MMX Technology
- 32MB EDO Memory / 512K L2 Cache
- 4.3GB EIDE Hard Drive
- 24X MAX EIDE CD-ROM & 3.5" Floppy Drives
- 2MB Diamond® Stealth 3D Graphics Accelerator
- 17" Princeton Graphics Ultra71 Monitor
- 33.6K FaxModem (56K X2™ / K56flex™ Optional)
- MIDI WaveTable 3D Stereo Sound Card & 2 Spkrs
- 104+ Keyboard , Mouse, Microsoft Windows® 95
- Compton® Encyclopedia Multimedia CD

$1525

233MHz Pentium Processor w. MMX Technology $1675



Screamer XC6/266

- 266MHz Pentium® II Processor
- 32MB EDO Memory / 512K L2 Cache
- 4.3GB EIDE Hard Drive
- 24X MAX EIDE CD-ROM & 3.5" Floppy Drives
- 4MB Diamond® Stealth 3D PCI Graphics Accelerator
- 17" Princeton Graphics EO70 Digital Monitor
- 33.6K FaxModem (56K X2™ / K56flex™ Optional)
- MIDI WaveTable 3D Stereo Sound Card
- Full Range Rotating Satellite Speakers w. Subwoofer
- 104+ Keyboard w. Hand Rest, Hi-Res Mouse
- Microsoft Windows® 95
- Compton® Encyclopedia Multimedia CD
- MPEG Karaoke VideoCD & 70 GamePak CD
- **3-Year Parts & 1-Year Labor Warranty**

$2295

233MHz Pentium® II Processor Based System $2145
233MHz Pentium Processor w. MMX Technology $1845
200MHz Pentium Processor w. MMX Technology $1715

Dream Machine DC5/233

- 233MHz Pentium Processor w. MMX™ Technology
- 32MB EDO Memory / 512K L2 Cache
- 4.3GB EIDE Hard Drive
- 24X MAX EIDE CD-ROM & 3.5" Floppy Drives
- 2MB Diamond® Stealth 3D PCI Graphics Accelerator
- 15" Flat Screen 0.28dp Digital Monitor
- 33.6K FaxModem (56K X2™ / K56flex™ Optional)
- MIDI WaveTable 3D Stereo Sound Card
- Full Range MegaBass Amplified Speakers
- 104+ Keyboard w. Hand Rest, Hi-Res Mouse
- Microsoft Windows® 95
- Compton® Encyclopedia Multimedia CD
- MPEG Karaoke VideoCD & 70 GamePak CD
- **3-Year Parts & 1-Year Labor Warranty**

$1575

200MHz Pentium Processor w. MMX Technology $1425
233MHz Pentium® II Processor Based System $1875
266MHz Pentium® II Processor Based System $2025

Second PC SC5/166

- 166MHz Pentium Processor w. MMX™ Technology
- 16MB EDO Memory / 512K L2 Cache
- 2.1GB EIDE Hard Drive
- 16X MAX EIDE CD-ROM & 3.5" Floppy Drives
- 2MB Diamond® Stealth Video Graphics Accelerator
- 14" MAG 1024x768 MPR-II Monitor (13.3" vis)
- 33.6K FaxModem (56K X2™ / K56flex™ Optional)
- 16-Bit Sound Blaster® Compat. Stereo Sound Card
- Full Range MegaBass Amplified Speakers
- 104+ Keyboard w. Hand Rest, Hi-Res Mouse
- Microsoft Windows® 95
- Compton® Encyclopedia Multimedia CD
- MPEG Karaoke VideoCD & 70 GamePak CD
- **3-Year Parts & 1-Year Labor Warranty**

$1095

200MHz Pentium Processor w. MMX Technology $1225
233MHz Pentium Processor w. MMX Technology $1375
Lotus SmartSuite / Wordperfect Business Suite $55

MMX™ intel inside pentium® PROCESSOR

800.969.2123

TO ORDER ONLINE

WWW.COMTRADE.COM

Fax: 626.369.1479 **30-day Money Back Guarantee.** All upgrades are sold with Comtrade system purchase only. Shipping and return shipping are not refundable. The Intel inside logo, and Pentium are registered trademarks and MMX is a trademark of Intel Corporation.

COMTRADE
"The Lightning PC"

@www.

YOUR SEARCH FOR THE LOWEST PRICE* IS OVER



Jaton Pentium MMX & 512K
$69



Princeton 15"/17" SVGA Digital Monitor
$245/$440



Matrox Millenium II VGA Card
$189



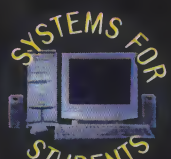
Western Digital 2.1 Gig Hard Drive
$170



USR 2X 56K Fax Modem
$155



Intel MMX P166
$1118



Intel P166
$1025



Intel MMX P200
$1249

BUY ONLINE HERE

THOUSANDS OF PRODUCTS

UNLIMITED COMPUTER SYSTEMS

GUARANTEED LOW PRICES

24-HOUR CUSTOMER SERVICE

SECURE TRANSACTIONS

CyberCash

first time online buyers get an additional 10% OFF

CALL OUR COMPETITION TO COMPARE!

COW	(800) 726-4239
Comput Ability	(800) 554-9950
EPS	(800) 447-0921
Gateway 2000	(800) 424-1392
Insight	(800) 467-4448
Magic PC	(800) 762-4426
Micro Pro	(800) 353-3003
Micro Xpert	(800) 736-4276
Micron	(800) 700-0591
Midwest Micro	(800) 682-2611
NNA Technologies	(888) 228-1662
PC Importers	(800) 619-9119
PC Mall	(800) 681-3282
PCs Compleat	(800) 581-7911
Treasure Chest	(800) 677-9781
USA Flex	(800) 477-7770

NNA TECHNOLOGIES

NNA TECHNOLOGIES

www.nnatech.com

1 888 2281 NNA

*WHILE SUPPLIES LAST

DISCOVER

MasterCard

VISA

PREMIER

ZDNet Marketplace

Shop www.marketplace.zdnet.com Hundreds of ads, plus links to the web sites of ©www advertisers.

PREMIER
ZDNet Marketplace Shop www.marketplace.zdnet.com. Hundreds of ads, plus links to the web sites of @www. advertisers.

When you're SERIOUS about Order Entry ...
GET SERIOUS with
M O M

When you need a complete automation solution for your mail or phone order business, you don't need a collection of lightweight PC packages. Mail Order Manager is business software that gives you everything in one seamless and totally integrated system!

- Order Entry/Tracking
- Mailing List Management
- Credit Card Processing
- UPS, USPS and FedEx Shipping
- Inventory Management & Purchasing
- A/R and A/P

Working demonstration version available for $25 (refundable).
Systems start at $1,195.

Get Serious about Your Business Software • Call Today 1-800-858-3666 or (201) 335-1256
MailOrderManager™
THE BUSINESS AUTOMATION SOLUTION FOR DIRECT MARKETERS
Dydacomp Development Corp. • 150 River Road, Suite N1, Montville, NJ 07045
Visit us On-line at... http://mailordercentral.com

CIRCLE 408 ON READER SERVICE CARD

Let's Get Serious About
VIRTUAL WEB HOSTING
Always Your Best Value On The Web

- Domain Name Registration Provided (http://www.your_name.com)
- NO TRANSFER OR TRAFFIC FEES
- 25 MB of Disk Space
- $5 each additional 20 MB
- Dedicated T-3 Connection
- 10 Email Box Accounts (yourname@your_domain.com)
- Unlimited Email Addresses, Forwarding & Aliases
- Auto Email Responders
- FTP & Telnet Access
- Same Day Setup
- Anonymous FTP
- Microsoft Frontpage™ Supported
- Custom CGI Script Support
- Email Forms, Guestbooks, Shopping Cart & More
- Detailed Web Usage Logs & Access to Raw Files
- Secure Server Included
- No Minimum Contract
- Excellent Reseller Program

$24.95 Per Month
Be Placed On Over 100 Search Engines
Why Are More & More People Using Web2010? Value & Service
WEB 2010
www.web2010.com
sales@web2010.com
The Best On The Web
800-962-5405 • 888-932-2010

@www. or CIRCLE 409 ON READER SERVICE CARD

A Place for YOUR SITE from Pick Internet
www.YOUR NAME.com
FREE HTML/Home Page creation Included
3 - High Speed T3 Internet Connections!!!
45 Megabits per second!
From $19.97 p/mo*
*12 mo. min. contract $79 set-up fee
800-808-9241
Visit: http://www.pick.net/ email: pccm@pick.net
RESELLERS WELCOME Http://www.pick.net/resell/

CIRCLE 406 ON READER SERVICE CARD

NT or UNIX server • T3 Speed • Unequalled Support
FrontPage extensions • Real Audio • Domain email
PUT IT ON THE WEB SINCE 1992 Infoboard DOMAIN WEB SPACE
http://infoboard.com 800-514-2297
Credit Card Transactions—secure real time • Chat & Message Areas • Informix Database • Shopping Cart
Reseller Discounts • Much more...
ACCOUNTS FROM $25 WITH 25 MB OF SPACE

CIRCLE 407 ON READER SERVICE CARD

NO MORE pre-printed checks!
Save time and money printing your own checks with mips VersaCheck™!
300 Additional Blank Checks FREE mail-in coupon inside packages!
Revolutionary mips VersaCheck™ is the inexpensive software that not only lets you print your own completely valid checks from scratch, but automatically keeps your account balances too! mips VersaCheck installs into MS Word 6, 7 & 97 and lets you create checks in minutes. Include addresses, logos, even your signature, all password protected. **mips VersaCheck even prints the bank code line required by all banks for processing.** And, you can make changes to your checks at any time, instantly!

- ✔ Save 50-80% over pre-printed checks!
- ✔ Prints bank drafts and deposit slips
- ✔ Manage an unlimited number of password-protected accounts
- ✔ Compatible with inkjets and laser printers
- ✔ Compatible with **Quicken**, **QuickBooks**, **PeachTree** and more!

mipsVersaCheck SRP $49.95
To order, call 800-898-8560
mips Dataline America, Inc.
Tel: 619-679-4070 · Fax: 619-679-4073 · http://www.mipsdla.com
13240 Evening Creek Drive, Suite 311 · San Diego, CA 92128
OfficeMax 800-788-8080
Also available through: Tiger Direct 800-888-4437
EGGHEAD 800-EGGHEAD COMPUSA 800-COMPUSA 800-258-2088 COMPUTER CITY 800-843-2489

@www.

SLIPNET PUT YOUR BUSINESS ON THE WEB!
WEB HOSTING $19.95 Per Month*

- Unlimited E-mail Forwarding
- Domain Name Registration available (www.your_company.com)
- 1000 MB of Data Transfer per Month
- 50 MB Storage for html Documents and Graphics
- Full Redundant T3
- Tons of Web Tools and Wizards
- Real Time Reporting on Web Site Activity
- Support for Custom CGI Scripts
- Support for MS FrontPage 97
- Self Directed Control Center™
- Resellers Welcome

SLIP.NET
*Minimum contract + setup required
754-7638
1-800-SLIP.NET
Int'l: 415-536-6197
www.slip.net
Order OnLine!

@www. or CIRCLE 405 ON READER SERVICE CARD

Rent Space Here

www.9netave.net

Web Hosting Sale!

FREE With Every Plan

- Fast UUnet access into the Major Internet Backbone
- Powered by SGI Origin 2000 Server
- Multi-homed, Internet connected data lines
- Microsoft FrontPage extensions
- Your own FTP site
- Your own CGI directory
- Web site activity logs
- Cold Fusion Support
- Account "Control Panel" access via WWW
- Daily Tape Backup of your data
- Expert Technical Support
- On-site UPS
- 24-hour on-site monitoring
- Same day set-up
- No minimum contract
- E-Pub graphical chat room
- POP 3 Accounts
- Anonymous FTP
- 99% uptime guaranteed
- 90 day money-back guarantee

9NetOne Plan $14.95

Features:
- 25MB
- 6 mailboxes
- Domain name registration www.yourname.com
- Configurable, unlimited *e-mail address* forwarding
- Controllable Anonymous FTP
- Custom CGI script support via own cgi-bin directory
- Detailed web usage statistics & access to raw log files
- TrueSpeech® server support included (real-time audio)
- 1000 MB of data transfer per month 8¢ per MB over 1000

9NetPro Plan $39.95

Features:
- **100MB**
- **25 mailboxes**
- **This special plan includes all features for 9NetOne Plan PLUS:**
- **Secure Server (SSL) access**
- CyberCash®
- Real Audio/Video up to 1000 streams
- FTP Access
- 5000 MB of data transfer per month 8¢ per MB over 5000
- MS Access
- Webcast Video Server
- Unlimited domains

9NETAVENUE

1 888 9NET AVE (1 888 963 8283)

Co-location service available

and get this absolutely FREE!



www.freeearth.net

WIN $1000

VISIT freeearth SITE FOR INFO!

Come See us at Comdex Booth #P2801

PREMIER ZDNet Marketplace Shop www.marketplace.zdnet.com Hundreds of ads, plus links to the web sites of @www advertisers.

PREMIER

ZDNet Marketplace Shop www.marketplace.zdnet.com. Hundreds of ads, plus links to the web sites of @www. advertisers.

Windows NT 4 · Solaris · Linux · Windows 95 · OS/2 · PC-DOS · SCO UNIX

QNX · FreeBSD · Warp · Lynx OS · Coherent Unix

NetWare · NeXT Step · Windows 95 · UnixWare · XENIX

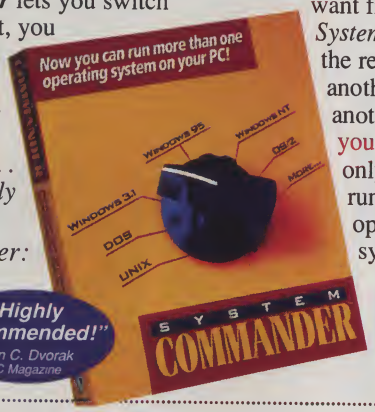
Switch without Risk!

Now you can run both Win 95 and DOS/Win 3.x on the same PC!

If you're considering Windows 95, but have "update phobia", new ***System Commander*** lets you switch without fear! In fact, you can run Win 95, 3.1, NT, OS/2, and DOS without repartitioning your PC unless you want to . . . *. . . safely, effortlessly and inexpensively.*

System Commander:

- prepares your PC automatically for new operating systems in 5 minutes
- it's so easy to use - just select the OS you want from the menu and *System Commander* does the rest; reboot and make another selection to use another OS
- it saves you money - you need only one machine to run dozens of operating systems!



"Highly recommended!" John C. Dvorak PC Magazine

1995 BYTE Fournelle's User's Choice Award — April 1996

PC Magazine Best of 1996 — Jan 7, 1997

SYSTEM COMMANDER is only $99.95 and comes with an unconditional 60-day money back guarantee.

Get FREE overnight shipping when you mention this ad.*

Call today, have it tomorrow!*

800-648-8266

www.v-com.com

Look for System Commander in the Utilities section of most major software stores.

V Communications, Inc. • 4320 Stevens Creek Blvd, #120-PCC8 • San Jose, CA 95129 • (408) 296-4224 • Fax (408) 296-4441

* When ordered before noon PST. No Saturday delivery. Continental US. CA res. add $7.25 sales tax. Offer subject to change without notice.

All logos and product names are trademarks of their respective companies. VISA/MC/Amex ©1997

Windows 3.x · DOS/V · Windows 95J · Warp 4 · MS-DOS · Linux · CTOS

@www.

Keep your PCs up & running with our 100% accurate fix...



The Universally Compatible Diagnostics Toolkit...

Micro-Scope is a universal PC diagnostic that runs a proprietary O/S on any IBM compatible PC which eliminates DOS limitations and inaccuracies. Version 6.16 adds 25 enhancements and includes: IDE low-level format, accurate IRQ conflict display, cache memory test, 64 meg video memory test, data recovery capabilities, virus capabilities and super-fast hard drive testing.

Post-Probe is a universal P.O.S.T. (Power-On Self-Test) reader card for the "dead" PC. Post-Probe includes: MCA adapter, tri-state logic probe, 13 LED pre-POST test, 2-digit POST code display and a manual with a full explanation of the manufacturer POST codes down to the exact device or chip failure.

1993 BYTE Fournelle's User's Choice Award

GSA Approved

Windows 95 Compatible

PC Upgrade Utility of the Month

Service News Product of the Month

Micro 2000, Inc.
1100 E. Broadway
3rd Floor
Glendale, CA 91205
1 (800) 864-8008
Fax (818) 547-0397

Award Winning — Professional Diagnostics from MICRO 2000™

See us on the web at http://www.micro2000.com

@www.

FAXfree

Fax documents on the Internet for free...
Save big $$$ in long-distance charges!

How would you like to fax documents anywhere in the world for free using your existing Internet connection? Just add an affordable **FAXfree solution** and get the benefits of faxing, without the long-distance charges.

FAXfree Personal, provides a low-cost way for individuals and small organizations to fax documents from desktop PCs.

Offering the features of FAXfree Personal plus more, **FAXfree Server** for Windows NT 4.0 lets multiple users send faxes simultaneously using corporate networks and intranets.

FAXfree Portal is a complete hardware solution that connects directly to existing fax machines. FAXfree Portal intercepts fax numbers and routes documents over the Internet.

No more exorbitant phone bills. No more waiting for an available phone line or searching for misdirected faxes. No more time standing by the fax machine. No more resending jammed faxes.

Get all these benefits and more from our easy-to-install, easy-to-use, and affordable **FAXfree solutions**.

TOP 20 LAN TECHNOLOGY SINGLE ITEMS READERS' INTEREST AWARD 1997

Also Available In
COLOR



10 user FAXfree Personal Software License
Only $249.00

FAXfree
On The Internet

Order Now! 800-659-4440
www.tacsystems.com/pc

FAXfree and FAXfree Portal are trademarks of TAC Systems Inc. Other brands and product names are trademarks of their respective owners.
Information here is believed accurate at its publication but is subject to change without notice. TAC Systems is not responsible for inadvertent errors. © TAC Systems Inc., Huntsville, AL. FF00018 7/97

@www.

PREMIER
ZDNet Marketplace
Shop www.marketplace.zdnet.com Hundreds of ads, plus links to the web sites of @www advertisers.

PREMIER
ZDNet Marketplace Shop www.marketplace.zdnet.com. Hundreds of ads, plus links to the web sites of @www. advertisers.

IBM® VoiceType

Turn spoken words into text simply by talking to your computer.

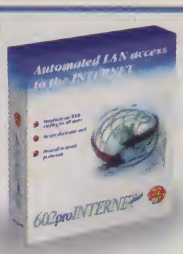
- Award winning accuracy
- Dictate up to 100 WPM
- **22,000** word active vocabulary
- Add tens of thousands of your own words
- Includes Noise-Canceling microphone
- Eye's free dictation
- Specialized: Legal, Medical, & Journalism Vocabularies available.

Get impressive accuracy immediately with eyes–free, speaker–independent voice recognition.

Voice Recognition Systems, Inc
3105 Riverwalk Drive Annapolis, MD. 21403
Phone: 410-269-7730 Fax:410-269-7732
1-800-624-7987
http://www.voice-recognition.com

@www. or CIRCLE 410 ON READER SERVICE CARD

602proINTERNET



- MAIL SERVER/ SMTP-POP3 GATEWAY
- LOCAL ENCRYPTED MAILBOXES
- FIREWALL/PROXY SERVER
- SUPPORTS MICROSOFT AND NETSCAPE BROWSERS

WWW.SOFTWARE602.COM/WIN.HTM

Acting as both a Firewall/Proxy Server and Mail/SMTP-POP3 Server, 602proINTERNET provides full internet connectivity to all of your network users so they can enjoy the benefits of having full Internet access including Web Browsing and E-Mail.

Software602, Inc.
6821 Southpoint drive North
Jacksonville, FL 32216
fax:904-296-9392
tel:904-296-7700
email:info@software602.com

@www. or CIRCLE 411 ON READER SERVICE CARD

Netscape: Student Section

ADDRESS FOR SUCCESS

Location: http://www.aics.edu

Welcome to the AICS Virtual Campus



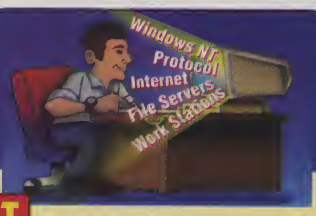
- Earn B.S. and M.S. in Computer Science
- DISTANCE EDUCATION
- Object oriented B.S. program
- New courses in Java, Networking, HTML, MIS
- Approved by more than 275 companies
- Follows ACM/IEEE guidelines
- Thousands of students throughout U.S.

AMERICAN INSTITUTE COMPUTER SCIENCES

ACCREDITED MEMBER World Association of Universities and Colleges

Free catalogue ***1-800-767-AICS***
or ***http://www.aics.edu***

@www.



GET MCSE, CNE OR A+ CERTIFIED... FAST!

The first *100%* Computer Based Training (CBT) programs on CD-ROM to fully prepare you for Novell's CNE, Microsoft's MCSE and the A+ Certification exams. ForeFront's Self-Study Courses give you flexibility and portability unmatched by traditional training methods. You'll study at your own pace using our easy to follow, step-by-step format. Study whenever and wherever it's convenient for you!

- **All on one CD**
- **Interactive simulations for hands-on exercises**
- **Study at your own pace**
- **Hundreds of practice questions**
- **Priced below competitive products**
- **Everything you need to prepare for the exams!**

Bonus!!!
Buy Any Two CBTs and get The Micro House Technical Library™ FREE

The ForeFront MCSE Self-Study Course™

Ensures the highest rate of retention so that when you complete your training you'll be fully prepared to pass your MCSE exams. You'll be ready and confident to go into the workplace to effectively plan, implement, maintain and support information systems in a wide range of computing environments, using Windows NT and other Microsoft Server products.



The ForeFront A+ CERTIFICATION Self-Study Course™



Getting A+ Certified will help *open the* way to further advancement in the corporate world. A+ Certification is the new required standard for PC Repair Technicians. This hands-on self-study course will give you all the technical material, knowledge, interactive exercises, and confidence you'll need to pass your exams and excel in today's competitive PC repair marketplace!

The ForeFront CNE Self-Study Course™

Provides fast, effective and convenient training to anyone wishing to become a Certified NetWare Engineer, even when hampered by a busy schedule. Our CNE CBT allows you to learn *everything* you'll need for full NetWare certification.



Call for Special Discount Pricing Today!

1-800-475-5831

MasterCard VISA AMERICAN EXPRESS DISCOVER/NOVUS

- **Free Technical Support**
- **Next Day Shipping**
- **Performance Guaranteed**

FORE FRONT™ DIRECT

(813) 724-8994 • FAX (813) 726-6922 PG
25400 U.S. Hwy. 19 N., #285 Clearwater, FL 33763

@www. or CIRCLE 412 ON READER SERVICE CARD



Training Videos for Windows Software™

KeyStone Learning Systems Corp.

Microsoft SOLUTION PROVIDER



Alison Balter
Microsoft Certified & Access Instructor



Robert MacHale
Professional Trainer & Internet Instructor



Susan Holmes
Professional Trainer & WordPerfect Instructor

NEW Access 97*

Beginning	$49.95
Intermediate	$49.95
Advanced	$49.95
Special-All Three	$129.95
Free Book & CD w/set	

NEW Front Page 97*

Level 1	$89.95
Level 2	$89.95
Level 3	$89.95
Special-All Three	$249.95

NEW WordPerfect 8*

Beg/Int/Adv	(ea) $49.95
DTP/Mail Merge	(ea) $49.95
Tables & Forms	$49.95
Special-Any Three	$129.95
Special-All Six	$239.95

NEW Outlook 97

Basics	$49.95
Power Features	$49.95
Special-Both Videos	$89.95

NEW Windows NT 4.0*

Server Admn. Lev 1	$89.95
Server Admn. Lev 2	$89.95
Covers Exam 70-67	
Enterp. Admn. Lev 1	$89.95
Enterp. Admn. Lev 2	$89.95
Covers Exam 70-68	
Special All Four	$329.95
Serv. & Wrk. Install	$89.95
Covers Exam 70-63 & 70-73	
Workstn. Admn. Lev 1	$89.95
Workstn. Admn. Lev 2	$89.95
Workstn. Admn. Lev 3	$89.95
Covers Exam 70-73	
Special All Four	$329.95
Workstn. User Level 1	$49.95
Workstn. User Level 2	$49.95
Both Videos	$89.95
Special All Ten	$699.95

NEW AutoCAD 14

Level 1/2/3	(ea) $89.95
Level 4/5/6	(ea) $89.95
Special-All Six	$449.95

NEW Word 97*

Beginning	$49.95
Intermediate	$49.95
Advanced	$49.95
Mail Merge	$49.95
Forms	$49.95
Desktop Publishing	$49.95
Internet	$49.95
Special-All Seven	$279.95

PageMaker 6.0*

Beginning	$49.95
Intermediate	$49.95
Advanced	$49.95
Special-All Three	$129.95

Windows 95*

Beginning	$49.95
Intermediate	$49.95
Advanced	$49.95
Special-All Three	$129.95
Network/Install	(ea) $49.95
Plus Spec. Features	$49.95
Special-All Six	$239.95

Lotus Notes 4.x

App. Dev. Lv. 1/2/3	(ea) $89.95
Sys. Adm. Lev 1	$89.95
Sys. Adm. Lev 2	$89.95
Domino	$89.95
Mail & Scheduling	$49.95
User	$49.95
Special-All Eight	$549.95

NEW CorelDRAW! 7*

Beg/Int/Adv	(ea) $49.95
Printing	$49.95
Internet Development	$49.95
Special-All Five	$199.95

Lotus cc:Mail 6.0*

Sys. Adm. Level 1	$89.95
Sys. Adm. Level 2	$89.95
User	$49.95
Special-All Three	$199.95

NEW PHOTO-PAINT 7*

Beginning	$49.95
Advanced	$49.95
Special-Both Videos	$89.95

Excel 97*

Beginning	$49.95
Intermediate	$49.95
Advanced	$49.95
Power Features	$49.95
Pivot Tables	$49.95
Shortcuts & Ideas	$49.95
Special-All Six	$239.95

NEW Photoshop 4.x*

Beg/Int/Adv	(ea) $49.95
Color Correction	$49.95
Power Features	$49.95
Special-All Five	$199.95

Over 500 Titles

Domestic Shipping 2-3 Days: $5.00 for the first two videos; plus $1.50 for each additional video tape. International Orders: Shipping cost will vary, call for details.

All Videos Available in PAL (European Format)

* Other versions available
Prices and course may vary

Average: 2 hours of training per video

Ask about KeyNotes™ $14.95 ea
KeyStone's Quick Reference

RISK FREE 30 DAY Money Back Guarantee

Office 97 VIDEO COMBINATIONS

$19.95 MS Office Integration Video with any Combo purchase

Microsoft SOLUTION PROVIDER

Microsoft Office Plus — $579.95 (WITH KEYNOTES $749.95)
- 3 Word, 3 Excel, 3 Access (Beg/Int/Adv)
- 3 PowerPoint, 3 Windows, (1 Outlook or 1 Mail)
- 16 videos with over 29 hours of training

Microsoft Office Pro — $495.95 (WITH KEYNOTES $639.95)
- 3 Word, 3 Excel, 3 Access (Beg/Int/Adv)
- 3 PowerPoint, (1 Outlook or 1 Mail)
- 13 videos with over 24 hours of training

Microsoft Office Standard — $349.95 (WITH KEYNOTES $469.95)
- 3 Word, 3 Excel, 2 PowerPoint, 1 Outlook
- 9 videos with over 17 hours of training

SmartSuite 97 VIDEO COMBINATIONS

SmartSuite Plus — $579.95
- 3 Lotus 1/2/3, 3 AmiPro, & 3 Approach
- 3 Freelance Graphics, 3 Windows, & 1 Organizer
- 16 videos with over 29 hours of training

SmartSuite Professional — $495.95
- 3 Lotus 1/2/3, 3 AmiPro, & 3 Approach
- 3 Freelance Graphics, & 1 Organizer
- 13 videos with over 24 hours of training

SmartSuite Standard — $349.95
- 3 Lotus 1/2/3, 3 AmiPro, & 3 Freelance Graphics
- 9 videos with over 17 hours of training

Corel Suite 8 VIDEO COMBINATIONS

COREL SOLUTION PARTNERS

Corel Office Professional — $579.95
- 3 WordPerfect, 3 Quattro Pro, 3 Presentations
- 3 Paradox, 1 Netscape Nav., 1 Envoy, 2 Groupwise
- 16 videos with over 29 hours of training

Corel WordPerfect Suite Professional — $495.95
- 3 WordPerfect, 3 Quattro Pro, 3 Presentations
- 1 Envoy, 3 Windows
- 13 videos with over 24 hours of training

Corel WordPerfect Suite Standard — $349.95
- 3 WordPerfect, 3 Quattro Pro, 3 Presentations
- 9 videos with over 17 hours of training

4 Easy Ways to Order:

CALL ▶ 1-800-807-6319
8 0 1 - 3 7 5 - 8 6 8 0
FAX ▶ 1-801-373-6872
WWW ▶ www.klscorp.com
MAIL ▶ KeyStone Learning Systems Corp.
2241 Larsen Parkway
Provo, UT 84606

AD# PC107

We accept C.O.D., Company P.O. or check +

PREMIER ZDNet Marketplace Shop www.marketplace.zdnet.com Hundreds of ads, plus links to the web sites of @www advertisers.

PREMIER
ZDNet Marketplace Shop www.marketplace.zdnet.com. Hundreds of ads, plus links to the web sites of @www. advertisers.

DESIGN • PRINT • APPLY • PACKAGE

PRODUCE PROFESSIONAL-LOOKING CD LABELS & JEWEL CASE INSERTS FOR $79.95



1 Create your own artwork On Your Computer with NEATO Templates.

2 Print on Laser or InkJet using NEATO CD Labels & Jewel Case Inserts.

3 Using the NEATO Label Applicator, apply labels... PERFECTLY EVERY TIME!

4 Insert Tray Liners & Booklets created with CD-FACE™ to complete your package.

JEWEL CASE INSERTS TOO!



KIT CONTAINS
- NEATO CD Label Applicator
- Set of Assorted Labels & Inserts
- CD-FACE™ including Design Software (Mac/PC) and Background Art for Labels & Inserts
- Disc & Jewel Case Templates for Popular Graphics Programs (Mac/PC)

Mastercard • AMEX • VISA

IMAGING MAGAZINE PRODUCT OF THE YEAR 96

NEATO LLC USA: 250 Dodge Ave • East Haven, CT 06512
203-466-5170 • Fax 203-466-5178 • 800-984-9800
Europe: +44 (0)990 561571 • Fax +44 (0)181 932 0480

@www.

Computer Checks



For Laser/Inkjet Printers

- **FAST turn-around time** 24-48 hours in-plant
- **FAST, low-cost shipping** via UPS
- **Compatible with popular software programs** Quicken®, Quickbooks®, MS Money®, Peachtree®, MYOB®, SBT® and many more!
- **Quick, easy ordering** from our website, or call or fax toll-free
- **Your logo imprinted FREE**
- **Mastercard/Visa accepted**
- **Free catalog available —** Window envelopes, deposit slips, continuous checks and more!

GUARANTEED LOWEST PRICE ON THE NET!

100 CHECKS FREE! CALL FOR DETAILS

http://www.checksforless.com
Call: 1-800-325-5568
Fax: 1-800-893-0177
Email: fsystem1@maine.rr.com

FormSystems
72 Auburn Street, Portland, Maine 04103-2170

CIRCLE 415 ON READER SERVICE CARD

Get Certified!



MCSE
6 Study Guides
6 CD ROMs
$ 249.95
Covers Windows NT 4.0

A+ Certification
$ 259.95
• 3 Books
• 2 CD ROMs

Novell CNE 4.11 $ 349.95
7 Videos for NetWare/IntranetWare 4.11
2 Novell Press Study Guides /3 CDs



www.lantell.com
800-526-8355
16250 Ventura Blvd, # 202 , Encino, CA 91436 818-905-1262 Fax 905-1292 LANTELL

Computer Discounters

• • • • SPECIAL • • • •
NCR 486 DX66 Desktop 8 or 16MBRAM/540 HD/SCSI/1 44/ WIN3.1/512 . . . .$189 or $229

LAPTOPS
Toshiba 720 CDT/730 CDT/650CT S2695/3395/2485
Texas Instruments 5370 P133/8/1.2/ 113 TFT $1395
Toshiba 420 CDS 8/810/6XCD $1395
IBM Thinkpad 760 EL PT33/16/1GB/6X . .$2795
IBM 9545 755CX P75 8/1 2/104 TFT . .$885
COMPAQ Amada 4130T/4120T . . .$1996/1795
386s & 486s Now in Stock! Mono & Color $249-8596
6X CD RAM for Thinkpad 760 .....$299

COMPUTERS
HP NbTServer LC/LH/LS,100&133 32/1/ CD in Stock .....$1395 to $1785
386 Compaq System 4/60 Keybd $69
486SX 4Mb/120Mb/Keybd $129
486DX33 4Mb/120Mb/Keybd $169
486DX66 16/500Mb/Keybd MCA-BUS . .$195
486DX 8mb/120/Keybd $199
P100 16/TG 4X $895

MONITORS
MONITOR from DEC/COMPAQ/CTX/ SONY/IBM/CTX/SAMSUNG/PACKARD BELL/MAGNAVOX/NEC/HITACHI/HP
14" Color /GA/SI/6A .....$79 & $99
15" SVGA Multiscan from $199 & 17" SVGA Multiscan from $299
IBM 17" SVGA $399
NEC E 100 21" SVGA 1600x1200@76Hz . .$899
Compaq Qvision 210 21", 26 1600x1200 .....$1185
RADUS ProcsionView 21" SVGA 1600x1200 .....$1295

NETWORKING
HP JetDIRECT Gotis- AltinStock . . .SS CALL SS
HP ADVANCESTACK HUB 15 PORT 100VG/ 48 Port $399/995
Token Ang 16/4SAZEthemet .....$25/$39
Intel Ether ExpressPro 10/100 NIC $59

ACCESSORIES
PCI VIDEO CARD #9 2MB DRAM/ 2MB VRAM exp to 4MB $39/59
Zoom 28.8 External Fax Modem $89
US Robotics 28.8 Internal Fax Modem . . .$89
Archive 4mm DAT SCSI 2-4GB External . .$295
SOUND Blaster AWE32 .....$78 NEW
Seagate 2.1 SCSI .....279 NEW
EXABYTE 8mm 8200 2GB SCSI- External $169
RADITUS TRUNDERCOLOR 30/1600 . . . .$695
SEAGATE 3.5 150N/15230 N 4GB $679
SEAGATE 1GB IDE $149
QUANTUM 4.3GB DE $329

Computer Discounters
Sales, PC Rentals & Parts
8383 Leesburg Pike • Tyson's Cornor, VA 22180
10543 Ewing Rd • Beltsville, MD 20705

For MORE PRODUCTS & CURRENT PRICING visit us on the INTERNET at—http:www.computerdiscounters.w1.com
Order Toll-Free 800-964-7886
Phone: 301-595-0500 Fax 301-595-5112

@www.

COMPUTER CHECKS

BUY DIRECT FROM THE CENTER FOR LOWEST PRICES!

Laser/Inkjet

Continuous Checks and Check Savers Also Available.

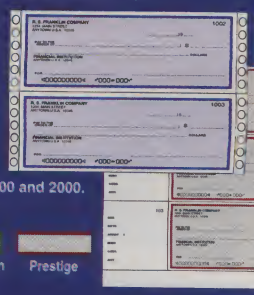
As Low as $29.95

CALL: 1-800-239-4087

FAX ORDERS: 1-800-774-1118
(PLEASE CALL FOR A FAX ORDER FORM)
MC, VISA & AMERICAN EXPRESS ACCEPTED

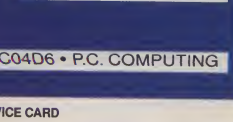
Internet: http://www.hotnew.com/checks/
E-Mail: info@checks.hotnew.com

- QUICKEN
- SIMPLY MONEY
- MICROSOFT MONEY
- MANY MORE



Laser and Continuous Feed Checks available in:
- Business Size
- Business Size with Voucher
- Wallet Size

Available in Quantities of 250, 500, 1000 and 2000.
Choose From 4 Stylish Colors!



Classic Blue Tan Classic Green Prestige

Designer CHECKS
P.O. Box 13387 • Birmingham • AL 35202

PO7C04D6 • P.C. COMPUTING

CIRCLE 414 ON READER SERVICE CARD

Work Coast to Coast!

The First and Only Laptop Battery to Last Longer Than Your Trip



Announcing the 1-800-Batteries Portable Power Pack

- Ultra thin and lightweight
- Built in power gauge
- Works with any laptop
- $179.00

Call for our free product catalog

Batteries and Tools for Mobile Professionals™

1-800-Batteries™ 1-800-228-8374

save $2, order on the web www.800batteries.com

MEMORY

• LIFETIME WARRANTY • LOWEST PRICES •

30 PIN 5V SIMMS		72 PIN 5V FPM/EDO SIMMS	
1x9	$9	1x32	$20
4x9	$25	2x32	$32
		4x32	$59
		8x32	$120
72 PIN 5V PARITY SIMMS		**168 PIN 3.3V SDIMMS**	
4MB 1x36	$28	16MB 2x64	$89
8MB 2x36	$52	32MB 4x64	$159
16MB 4x36	$69	64 MB 8x64	$395
32MB 8x36	$149		

BOSS

Micro Electronics

1050 East Duane, Suite F/G
Sunnyvale, CA 94086
Fax: 408.773.9783
email: info@bossmicro.com
http//www.bossmicro.com

SPECIAL SERVICES TO CORPORATE & EDUCATIONAL INSTITUTIONS

Prices may change due to memory market fluctuations / inventory on hand

800.544.6082 ext 818

@www. or CIRCLE 501 ON READER SERVICE CARD

BUY • SELL • TRADE MEMORY

WE CAN **BEAT** ANY QUOTED PRICE IN THIS MAGAZINE FOR MEMORY!!!

WE CAN PAY HIGHER THAN ANY ONE FOR **YOUR** OLD or BROKEN MEMORY

1•800•4•MEMORY

HTTP://18004MEMORY.COM

CIRCLE 502 ON READER SERVICE CARD

WHOLESALE TO THE PUBLIC CALL — 1-888-MEMORY3

Over 45,000 Items in Stock!
Get our current pricing at *http://www.intol.com*
FREE !!
Download our electronic catalog or search our extensive database !

MEMORY 72 PIN	
4MB 1X32 60ns	$17
4MB 1X32 60ns EDO	$17
8MB 2X32 60ns	$32
8MB 2X32 60ns EDO	$32
16MB 4X32 60ns	$54
16MB 4X32 60ns EDO	$54
32MB 8X32 60ns	$93
32MB 8X32 60ns EDO	$93

CPU'S	
AMD	
K6 166	$109
K6 200	$148
K6 233	$268
INTEL	
P133	$85
P200	$190
MMX 166	$130
MMX 200	$199
MMX 233	$370

FLOPPY DRIVES	
1.44 Mitsumi	$22

HARD DRIVES	
MAXTOR	
2.0GB	$156
4.0GB	$231
5.1GB	$277
Western Digital	
1.6GB	$149
2.1GB	$164
2.5GB	$186
3.1GB	$199
4.0GB	$242

VIDEO CARDS	
Trident 1MB PCI MPEG	$27
Trident 2MB PCI	$41
STB 4/8MB Velocity 3D	$169/298
S3-805 1MB VLB	$46
Stealth 3D 2000 2 MEG	$55

MODEMS	
56K Internal	
US Robotics	$139
33.6 Internal	
Voice/Fax/Modem Caller ID, Full Duplex V.34 Plug & Play, Only	$69

MOTHERBOARDS	
Shuttle 557 Triton VX 256K	$89
Rhino 12 512K Cache	$99
Rhino 15 512K Cache	$129
Tyan Vx 512K	$99
SEE WWW SITE FOR SPECS	

MB, CPU & FAN	
P5-200 MMX	$298
P5-166 MMX	$229
K6- 233	$369
K6- 200	$241
K6- 166	$208
VX Board. 512K, CPU, Fan	

INTOL Computers, Inc.
22065 US Highway 19 North, Clearwater, FL 34625
813-796-0806
Fax 813-796-1822

Pre-Paid Orders

10 Day Money Back Guarantee! Shipping fees are non-refundable. Not responsible for typographical errors. Prices are subject to change without notice. Web Server is updated on a daily basis.

CIRCLE 503 ON READER SERVICE CARD

72 PIN SIMMS (FPM, EDO)

		60NS	70NS
1 x 32 FPM/EDO	4 mg	23.00	20.00
2 x 32 FPM/EDO	8 mg	44.00	42.00
4 x 32 FPM/EDO	16 mg	79.00	79.00
8 x 32 FPM/EDO	32 mg	149.00	149.00
16 x 32	64 mg	429.00	429.00
1 x 36	4 mg	33.00	31.00
2 x 36	8 mg	62.00	59.00
4 x 36	16 mg	98.00	98.00
8 x 36	32 mg	189.00	189.00
16 x 36	64 mg	479.00	479.00

DIMMS (168 pin)

INDUSTRY STANDARD DIMMS						
Unbuffered	8Mg	16Mg	32Mg	64Mg	128Mg	256Mg
3.3V ECC, EDO	–	119	239	479	1209	–
3.3V EDO	55	99	199	387	–	–
5.0V EDO	–	119	239	479!	1209	–
5.0V FPM	–	Call	Call	Call	Call	Call
Buffered						
3.3V ECC, EDO	–	119	239	479	1209	Call
3.3V ECC, FPM	69	119	239	469	1209	2689

APPLE POWER MAC		
1 x 64	8Meg	55.00
2 x 64	16Meg	99.00
4 x 64	32Meg	199.00
8 x 64	64Meg	461.00
DELL, OPTIPLEX, GXPRO 200		
3.3V ECC, EDO	16Meg	119.00
3.3V ECC, EDO	32Meg	249.00
3.3V ECC EDO, 8/32chip	64Meg	479/845
3.3V ECC, EDO	128Meg	1690.00
DELL POWER EDGE 2100/4100		
3.3V ECC, EDO	16Meg	119.00
3.3V	32Meg	249.00
3.3V, 8/32 chip	64Meg	479/845
3.3V	128Meg	1690.00
3.3V	256Meg	3627.00
DELL & GATEWAY		
3.3V SDRAM	*8Meg*	*55.00*
3.3V SDRAM	*16Meg*	*99.00*
3.3V SDRAM	*32Meg*	*189.00*
3.3V SDRAM	*64Meg*	*461.00*
MOTOROLA (Apple Compatible)		
3.3V EDO	8Meg	54.00
3.3V EDO	16Meg	99.00
3.3V EDO	32Meg	197.00
3.3V EDO	64Meg	383.00

SIMM MODULES (30 PIN)

	60NS	70NS	80NS	100NS
256 x 9	–	2.00	1.00	1.00
1Meg x 9 (3 chip)	–	5.00	–	–
1Meg x 9 (9 chip)	14.00	12.00	12.00	10.00
4Meg x 9 (3 chip)	28.00	28.00	28.00	–
4Meg x 9 (9 chip)	33.00	33.00	33.00	–
16Meg x 9 (9 chip)	139.00	139.00	–	–

We'll *Pay YOU* for Your Computer **MEMORY!** We BUY Back All Types of Memory...
30 pin, 72 pin, 168 pin, SIMMS, DIMMS, Notebook & Laser Memory Call us and get a price for your memory.

TOSHIBA LAPTOP MEMORY

MODEL	AMT. UPGRADED	PRICE
Tecra 500/P650	8Meg/16Meg/32Meg/48Meg/128Meg	65/119/209/369/599
Tecra 700 (SDRAM)	8Meg/16Meg/32Meg	79/139/243
Tecra 710, 720	8Meg/16Meg/32Meg/64Meg/128Meg	79/129/219/649/1300
T2000SXE/2200SX/T1800, 1850, C	8Meg	89.00
T2100, 2105, 2150, 2155, 2110, 2115	4Meg/8Meg/16Meg/24 Meg	39/59/129/189
T4500, C, T4600, T4700, T1900, C, T910, T1950 (3.3 v)	4Meg	39.00
T4500, C, T4600, T4700, T1900, C, T1910, T1950 (3.3 v)	8Meg	79.00
T4500, C, T4600, T4700, T1900, C, T1910, T1950 (3.3 v)	16Meg/32Meg	139/243
T3400CT, T2400, T3600	4Meg/8Meg/16Meg/24Meg	39/79/149/199
T100, 105, 110, 115, 205, 210	8Meg/16Meg/32Meg	79/129/229
T400, 405, 410, 415, 420, 425	8Meg/16Meg/32Meg	79/129/229
T4400S, 4900DT, T100, 105 Edo	8Meg/16Meg/32Meg	79/129/229
T600, 610, CT Edo	8Meg/16Meg/32Meg	79/129/229

IBM NOTEBOOK & LAPTOP MEMORY

Thinkpad 340, 345, 355, 360, C, CE	4Meg/8Meg/16Meg	49/79/239
Thinkpad 365C, CS, CD, E, ED	4Meg/16Meg	49/169
Thinkpad 365X, 365XO	8Meg/16Meg/32Meg	69/139/289
Thinkpad 500, 510CS	4Meg/8Meg/16Meg	59/89/249
Thinkpad 560	8Meg/16Meg/32Meg	89/139/289
Thinkpad 700, 720, 750, CL57SX	4Meg/8Meg/16Meg/32Meg	39/79/159/268
Thinkpad 701, 701C	4Meg/8Meg/16Meg/32Meg	49/69/139/369
Thinkpad 730T, TE	4Meg/8Meg/16Meg	49/109/189
Thinkpad 755C, CE, CD, CS	4Meg/8Meg/16Meg/32Meg	39/69/129/299
Thinkpad 760C, CD, L, LO	4Meg/8Meg/16Meg/32Meg	59/89/139/249
Thinkpad 760E, EO, EL, ELD	8Meg/16Meg/32Meg	79/129/399

NOTEBOOK, LAPTOP MEMORY

MODEL	AMT. UPGRADED	PRICE
ACERNote 730C, 735C, 760C, 760CX, 780CX	2Meg/4Meg/8Meg	39/59/79
ACERNote 763, 765, 782, 784, 786	4Meg/8Meg/16Meg	49/75/129
ACERNote Light 350, 352, 355	4Meg/8Meg/16Meg	49/79/129
ACERNote Light 356, 358, 359, 361 (pairs)	4Meg/8Meg/16Meg	49/79/129
ACERNote Nuovo 971, 972	8Meg/16Meg/32Meg	69/125/239
ACERNote Pro 950, 954, 955, 957, 959 (pairs)	4Meg/8Meg/16Meg	49/89/239
AST Ascentia 900N, 800N, 810, 910	8Meg/16Meg	79/139
AST Ascentia 950	8Meg/16Meg	79/139
Canon Innova Book 350CD, 360, 475	8Meg/16Meg	69/139
DEC HiNote VP	8Meg/16Meg/32Meg	79/119/219
Dell Lattitude LM (pairs)	4Meg/8Meg/16Meg	49/69/139
Dell Lattitude 433, C, CX	4Meg/16Meg	69/129
Dell Lattitude LMP (pairs)	4Meg/8Meg/16Meg	59/79/199
Dell Lattitude LX, M	4Meg/8Meg/16Meg	59/79/139
Dell Latitude XP, XPI	4 Meg/8Meg/16Meg	59/79/139
Epson ActionNote 850, 650c, 660c, 660cx	4Meg/8Meg/16Meg	29/89/139
Epson ActionNote 700, 700c, 700cx	8Meg/16Meg	69/139
Epson ActionNote 880, 866c, 890	4Meg/8Meg/16Meg/20Meg	59/89/139/199
Epson ActionNote 4LC/25, 4LC/33, 4SLC2-50, 4000	6Meg	79.00
Fujitsu Monte Carlo, Montego, Milan	8Meg/16Meg/32Meg	69/139/219
Hitachi C-Series	8Meg/16Meg/32Meg	79/129/199
Hitachi E-Series	8Meg/16Meg/32Meg	79/129/199
Hitachi M-Series	8Meg/16Meg/32Meg	79/129/199
NEC Versa S, Versa 2000C & 2000D, 500	4Meg/8Meg/16Meg	49/89/139
NEC Versa 4000, 4050/4080	4/8/16/32Meg	49/69/129/219

NOTEBOOK, LAPTOP (Con't)

NEC Versa 6000	8/16/32Meg	69/139/699
Olivetti Echos P75-P1335 (pairs)	4Meg/8Meg/16Meg	49/69/134
Sharp 3030, 3070	8Meg/16Meg/32Meg	89/109/219
Sharp 6781, 6881, 6785, 6700, 6800, 6741	2Meg/4Meg	49/69
Sharp 6750, 6650, 6680, 7700, 7780	4Meg/16Meg	59/139
Sharp 8700, 8800, 8900	4Meg/8Meg/16Meg	59/79/149
Sharp 3010, 3020, 3050, 3060	4Meg/8Meg/16Meg	49/69/139
Sharp 9000, 9030	8Meg/16Meg/32Meg	89/139/199
Sharp 9040, 9070 (pairs)	4Meg/8Meg/16Meg/32Meg	49/79/139/219
Sharp 9080 (pairs)	4Meg/8Meg/16Meg	59/79/149
Sharp PC 100T	8Meg/16Meg/32Meg	69/139/219
TI 5000, 5100, 5200, 5300	8Meg/16Meg	39/139
TI 6020, 6030	8Meg/16Meg/32Meg	89/159/711
TI Extensa, 450, 450T, 455, 455T	4Meg/8Meg/16Meg	49/69/139
TI Extensa, 550, 555, 560, 565, 570 (pairs)	4Meg/8Meg/16Meg	49/79/139
Zenith Z-Star EX	4Meg/8Meg/16Meg	49/79/139

LASER PRINTER MEMORY

AMOUNT UPGRADED	OK Bd256k	1	2	3	3.5	4	6	6	8	16	32
Epson Action Laser 1100, 1600	–	–	19	29	–	–	79	–	–	109	239
Epson Action Laser II	–	–	–	74	–	173	–	–	272	–	–
Epson 8000, 1800, 4000, 4100, 4300	–	–	89	–	173	–	–	272	–	–	–
Epson 1000, 1500, 5000, 5200	–	–	–	69	–	138	–	–	–	–	–
HP 2, 2D+	–	–	–	59	–	79	–	–	–	–	–
HP 3, 3D, 3P, 2P 2P+	–	–	–	59	–	79	–	–	–	–	–
HP 4, 4M, 4SI, 4SIMX	–	–	–	19	–	39	–	–	69	–	–
HP 4P, 4PLUS, 4MPm 1600, 1600CM	–	–	9	19	–	39	–	–	69	–	–
HP 4L	–	–	29	–	–	–	–	–	–	–	–
HP 3SI	–	–	9	–	–	39	–	–	69	–	–
HP 5L	–	–	19	29	–	49	–	–	99	–	–
HP 5P, 5MP, 4V, 4MV	–	–	–	9	19	–	39	–	–	69	99
HP Design Jet 600, 650, 200	–	–	–	–	19	–	39	–	–	69	109 219
HP Deskjet 500, 500C, 510, 550,560	29	–	–	–	–	–	–	–	–	–	–
HP Deskjet 1200C, 1200C/P	–	–	–	39	–	49	–	–	89	–	–
HP Paintjet XL300	54	–	–	–	–	69	–	–	144	299	–
IBM Laser 4019, 4019E	–	–	–	–	–	119	–	–	–	–	–
IBM Laser 4029, 4037	–	–	–	–	–	–	69	–	–	–	–
IBM Laser 4039, 4079	–	–	–	29	–	49	–	–	89	–	–
Lexmark Medley 4C, 4x, 4SX	–	–	Call	Call	Call	–	–	–	–	–	–
Lexmark, Optra L, LX, R, RX	–	–	–	–	–	49	–	–	69	109	239
Lexmark Valuwriter 300,600	–	–	19	29	–	59	–	–	–	–	–
Lexmark Winwriter 200, 400, 600	–	–	19	29	–	59	–	–	–	–	–
Panasonic 4450	–	–	89	–	–	–	–	–	–	–	–
Panasonic 4400/5400	–	–	–	79	–	109	–	–	–	–	–
Panasonic 4440, 5410	–	–	–	79	–	109	–	–	–	–	–
Panasonic 8500	–	–	14	29	–	79	–	–	–	–	–
Sharp 9400, 9460, 9600, 9700E	–	–	69	99	–	149	–	–	–	–	–
Sharp 9500, E, H, 9700, H	–	–	79	–	–	259	–	–	–	–	–

The Memory Liquidators

CALL for CPU's and Hard Drives

(800) 718-7755

The Company that BUYS Memory Back

visit our Web Site: www.memoryliquidators.com

531 Main St., El Segundo, CA 90245 Ph. 310-326-5656 • Fax 310-326-7790 • M-F 8:00 am to 5:00 pm PST

Prices subject to change without notice

CLASSIFIED

ZDNet Marketplace Shop www.marketplace.zdnet.com. Hundreds of ads, plus links to the web sites of ©www. advertisers.

All Memory Is Brand New

Direct Prices to the Public

We will Beat any Advertised Price

All Memory Comes With A Lifetime Warranty

Memory 72 pin EDO 1x32-60/**$19** 2x32-60/**$28** 4x32-60/**$48** 8x32-60/**$95**

CPU's *Intel Only!!!*		Hard Drives		Mother Boards		Modems	
P-100Mhz	$95	850MB	$129	586-75-200Mhz		33.6 int fax/data	$67
P-120Mhz	$105	1.2GB	$139	Intel VX 430 Chipset,		33.6 int voice/fax	$68
P-133Mhz	$109	2.1GB	$149	256kpb cache,		UpGradable 56K	$78
P-150Mhz	$119	2.5GB	$169	2s2p on brd IDE/IO	$64		
P-166Mhz	$130	3.2GB	$189			CD-ROMS	
P-200Mhz	$199	Sound Cards		Video Cards		8x int	$71
P-Pro 180	$350	VIBRA 16 Pnp	$48	Matrox Millenium	$139	10x int	$98
P-Pro 200	$329	SB 32 Pnp	$68	Mystique 2MB	$95	12x int	$79
		AWE Gold	$159	Dia3d2MB	$68	16x int	$95
						24x int	$105

Over 1000 items in stock, check our cool website—www.memory-online.com

714·488·0477 **800·801·0087** Fax 714·488·0495

MEMORY ON-LINE

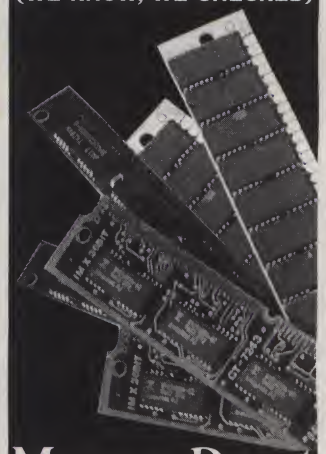
Prices and availability subject to change without notice

Office Hours
M-F 7-5 PST
Sat 8-12 PST

©www.

BEST PRICES IN THE USA ON MEMORY PENTIUM CPU's AND LAPTOP MEMORY

(WE KNOW, WE CHECKED)



MemoryDepot
your one stop computer source
(800)755-0586
FAX (619) 551-8824
HOURS:
MON-FRI 8AM-5:30PM PST
QUALIFIED P.O.S WELCOME
VISIT US ON THE WEB
http://www.memdepot.com

CIRCLE 505 ON READER SERVICE CARD

BASON HARD DRIVE WAREHOUSE

3.5" Hard Drives				2.5" Notebook Drives			
450MB	Seagate 1480A	SCSI	$65	810MB	IBM 2810	IDE	$189
1.0GB	Seagate 31081A	IDE	$139	810MB	Toshiba 1926FCV	IDE	$189
1.0GB	Seagate 31055N	SCSI	$189	1.0GB	Fujitsu 2714TA	IDE	$209
2.0GB	IBM DCAS	SCSI	$329	1.4GB	Toshiba 1403	IDE	$229
2.0GB	Micropolis 4221AV	SCSI	$279	1.6GB	Fujitsu 2724TA	IDE	$259
2.0GB	NEC 2100S	SCSI	$239	2.1GB	IBM DTNA-22160	IDE	$329
2.0GB	Seagate 32107N	SCSI	$359	2.1GB	Toshiba MK2103	IDE	$329
2.0GB	Seagate 32550N	SCSI	$349	3.0GB	Toshiba 3003MAN	IDE	$499
2.0GB	Seagate 52160N	Ultra	$269	3.0GB	IBM 23080	IDE	$499
3.0GB	Quantum 33240S	SCSI	$319	Tape Drives			
4.0GB	Fijutsu 2954SYU	Ultra	$559	2.0GB	Conner 2004		$499
4.0GB	IBM DCAS	Ultra	$479	4.0GB	Conner 4324		$559
4.0GB	Seagate 15150N	SCSI	$659	8.0GB	HP 1533		$829
4.0GB	Seagate 34371N	SCSI	$729	8.0GB	Conner 8000		$659
9.0GB	Fujitsu 2949SYU	SCSI	$899	8.0GB	Sony 7000		$759
9.0GB	Micropolis 1991S	SCSI	$899	16.0GB	Conner 4584		$999
9.0GB	Seagate 19171N	SCSI	$1099				

Other Brands & Models Available
Call Us! 800-238-4453
Or, Visit our Web Page for Everyday New Low Prices!
www.basoncomputer.com

Always the low prices leader! Super High-Capacity Expert!
Call: (818)727-9054 • Fax: (818)727-9066
Email:basonwm@basoncomputer.com

©www.

Our Prices Rock!!

Free $10 Prepaid phonecard with every order

BG COMPUTERS
Order: 541-779-9623
Fax: 541-858-0601
8:30 am to 6 pm M-F
10 to 5 Sat. & Sun. (PST)
Secure ordering via our web site at:
www.buybccomputer.com
Check, Credit Card, Money Order

Motherboard w/CPU		Video Cards	
Pentium 133	$179	2MB PCI	$30
Pentium 166	$239	4MB PCI MPEG	$50
Pentium 200	$269	Modems	
Cyrix 686 166	$159	33.6 Int	$50
Monitors		56k Int	$119
14 inch	$150	Hard Drives	
15 inch	$250	2.5GB	$209
17 inch	$430		

CD ROMs
8x/16x/24x ..... $54/$74/$114
Memory 72 pin EDO
8MB/16MB/32MB ..... $39/$59/$134
Complete Systems ...$799 & up

These are a few examples of our products. For current prices and a full list of products visit our web site. Experience our excellent customer service.
www.buybccomputer.com
Prices subject to change without notice. For current prices visit our web site.

©www. or CIRCLE 504 ON READER SERVICE CARD

Laptop Batteries

Batteries for Laptops, Notebooks, Powerbooks, Cellular Phones, Camcorders, Custom Rebuilds, call for a quote. No minimum orders CORP. PO's Welcome
VISA/MC/AMEX ACCEPTED

1 800-747-8876
Fax (206) 881-8874
http://www.VRABATT.com

VRA BATTERIES
16260 Redmond Way
Redmond WA 98052

CITYCOM
MOVING AHEAD ON THE CUTTING EDGE

HARD DRIVES	
1.7GB Fujitsu IDE	$169
1.6GB W.D. WDAC21600 IDE	$182
2.1GB W.D. WDAC32100 IDE	$205
3.1GB W.D. WDAC33100 IDE	$239
4.0GB W.D. WDAC34000 IDE	$309
5.1GB Maxtor Diamondmax IDE	$369
2.5GB Seagate Medalist Pro IDE	$199
4.3GB Seagate Barracuda UW SCSI-3	$769
MEMORY	
8MB EDO non-parity (72pin)	$45
16MB EDO non-parity (72pin)	$75
32MB EDO non-parity (72pin)	$138
32MB SDRAM 10ns (168pin)	$168
64MB SDRAM 10ns (168pin)	$379
32MB EDO, ECC Buffer (168pin)	$182
64MB EDO, ECC Buffer (168pin)	$409

800-437-1491
Fax: 510-475-2683
http://www.city-com.com

ZDNet Marketplace
Location: http://www.marketplace.zdnet.com

NEW AND IMPROVED

ZDNet Marketplace now includes direct links to advertisers' Web sites and more frequent updates of more ads. You only need to know one address to find all the information you need about products and prices available from hundreds of companies.

http://www.marketplace.zdnet.com

ZDNet Marketplace™

INTELLIBOTS™
...An Adventure in Programming
Learn how computers are built and programmed.
Program "Intelligent Robots" to find goals or other "IBots".
Watch your IBot perform on screen!
Compete with you friends! Have fun!
Available now for Macintosh and Windows.
For more information and a FREE demonstration copy, visit our web site:
http://www.intellit.com
INTELLIGENT TECHNOLOGIES, INC. P.O. BOX 2022 - OKEMO, VT 84059-2022
VOICE MAIL OR FAX: 801-431-0829

CIRCLE 506 ON READER SERVICE CARD

KEYSKIN® Keyboard Protectors
Cover Your Investment
Only $14.95
Over 3300 Models !
http://www.compucover.com
CompuCover®
(800) 874-6391
(850) 862-4448
FAX (850) 863-2200

@www. or CIRCLE 509 ON READER SERVICE CARD

The Lowest Prices!

Intel Triton Motherboards 512KB with Processors:-

with Pentium-150	$179	with Pentium-166	$219
with Pentium-200	$299	with PentiumMMX-200	$339
with AMD K6-166	$189	with AMD K6-200	$239
with AMD K6-233	$349	with Cyrix 6x86-P200+	$139
with Pentium Pro-180	$449	with Pentium Pro-200	$579
8MB EDO SIMM 72-Pin (2x32)			$24
16MB EDO SIMM 72-Pin (4x32)			$46
Diamond Stealth 2MB EDO DRAM			$29
Matrox Millenium II 4MB WRAM			$199
1.0GB Hard Drive	$139	2.0GB Hard Drive	$159
4.3GB Hard Drive	$199	6.5GB Hard Drive	$299
Complete Pentium/Pro Systems			@Low Prices

This is a sample of the many computer products we sell. You owe it to yourself to find out more about us and to check out the latest and current prices by visiting our web site. So the next time you're surfing the web, please remember to visit www.buycomputer.com!
www.buycomputer.com
neptune computer corporation
TEL (713) 952-2526 FAX (713) 952-2684

@www. or CIRCLE 507 ON READER SERVICE CARD

Mouse Pads
Custom Printed
● Your Logo Design
Plastic
● Fast Turnaround
Cloth
● Guaranteed Quality
MicroStore™
800-962-8885
FAX: 507-665-2604
LE SUEUR, MN 56058
Wrist Supports

CIRCLE 510 ON READER SERVICE CARD

MULTIMEDIA SOLUTIONS
BEST PRICES!

24X CD-ROM	$124
16X CD-ROM	$99
Creative DVD-ROM	$469
Creative AWE-64 SC	$99
2X/6X CD-Recorder	$429
14" .28mm Monitor	$189
15" .28mm Monitor	$269
17" .39mm Monitor	$369
ATI 8MB Video	$249

800-543-0220
Fax 919-459-8900
www.brianpc.com
Brian's Computers
200 Eastern Avenue
Nashville, NC 27856

@www. or CIRCLE 508 ON READER SERVICE CARD

1. EMPLOYEE CODE : BAI99
2. NAME : BAILEY, ROBERT
3. ADDRESS 1 : 298 COMME
A Thin Client Solution for Windows and Web Activation of UNIX & DOS Legacy Applications
www.clearview-software.com
Clearview Software
P.O. Box 1370
Amherst, NH 03031
(603) 472-7115
Start Employee # BAI996 Name Bailey, Robert

@www.

FCS
PORTABLE COMPUTING
WE'LL MEET OR BEAT ANY ADVERTISED PRICE!!
SALE • SERVICE • LEASING
ORDER HOTLINE 800-898-3274
ENGINEERED BEYOND YOUR WILDEST DREAMS!
Windows 95 Installed
INTRODUCING THE TECRA 740CDT. STATE-OF-THE-ART TECHNOLOGY FOR THE ULTIMATE IN PERFORMANCE, ADVANCED MULTIMEDIA & DESKTOP
TECRA 740CDT $6???
TECRA 730CDT $5???
TOSHIBA In Touch with Tomorrow
PENTIUM™ BLOCKBUSTER! THE WORLD'S FASTEST NOTEBOOK!
■ Pentium™ 166 MHz with PCI Bus
■ Active Color 12.1" Display
■ 2 GB Hard Drive
■ Full Duplex Speaker Phone/ Answering Machine
■ Multimedia Ready
■ 10x Int. CD Rom Drive
■ Built-in 28.8 Kbps V.34 Data/Fax Modem
■ Optional Docking Station
TOSHIBA 400CS
P-75, 8/500MB, Color, Multimedia Ready, NEW 3yr Warr.
Deal of the Century $798.00

Toshiba	Processor	Ram	HD	Screen	Price
50CT	PENTIUM™75	16MB	722MB	6.1 Active Clr	$1898.
200CDS	PENTIUM™133	16MB	1.34GB+10X	12.1 Dual Scan	$1828.
400CDS	PENTIUM™ 75	8MB	500MB+4X	10.4 Dual Scan	$1096.
430CDT	PENTIUM™ 120	16MB	1.2GB+10X	11.3 Active Clr	$2098.
440CDX	Pentium™ 133MMX	16MB	1.34GB+10X	12.1 Fast Scan	$2278.
440CDT	Pentium™ 133MMX	16MB	1.34GB+10X	12.1 Active Clr	$3098.
460CDT	Pentium™ 166MMX	32MB	2.02GB+10X	12.1 Active Clr	$3918.
3600CT	486DX2-50	8MB	250MB	8.4 Active Clr	$968.
3600CT	486DX2-50	8MB	500MB	8.4 Active Clr	$968.
650CT*	Pentium™ 133	16MB	1.2GB	11.3 Active Clr	$2628.
660CDT*	Pentium™ 150	16MB	1.35GB+10X	11.3 Active Clr	$3998.
300CT	Pentium™ 133MMX	32MB	1.51GB	10.4 Active Clr	$3188.
510CDT	Pentium™ 133	16MB	2.1GB+10X	12.1 Active Clr	$2698.
520CDT	Pentium™ 166MMX	32MB	2.02GB+10X	12.1 Active Clr	$4278.

* Sub Notebook

INTRODUCING FAST & RELIABLE!
THE HP OMNIBOOK 5500

Model	Processor	Ram	HD	Screen	Price
800CT	Pentium™/133	16MB	1.4GB	10.4" SVGA TFT	$3078.
5700CT	MMX/150	16MB	2.0GB	12.1" SVGA TFT	$4368.
5700CTX	MMX/166	16MB	2.0GB	12.1" SVGA TFT	$4998.

NEC VERSA P

Model	Processor	Ram	HD	Screen	Price
6050MH	Pent™/150MMX	16MB	1.44GB+10X	12.1" Active Clr	$3548.
6050MX	Pent™/150MMX	16MB	2.1GB+10X	12.1" XGA TFT	$4094.
6200MX	Pent™/166MMX	32MB	2.1GB+10X	13.3" Active Clr	$5285.

IBM THINKPAD
ThinkPad 760: Up to 150 Mhz, 2GB HDD,In Stock
ThinkPad 560: Ultimate Sub-Notebook, Now w/ 2GB

Model	Processor	Ram	HD	Screen	Price
760XD,MMX	Pentium™/166	32MB	3.0GB	12.1" Active Clr	$4824.
760XI,MMX	Pentium™/166	16MB	2.1GB	12.1" Active Clr	$3858.
760XL,MMX	Pentium™/166	32MB	2.1GB	12.1" Active Clr	$4052.
760E	Pentium™/150	16MB	2.1GB	12.1" Active Clr	$3575.
760ED	Pentium™/133	16MB	2.1GB	12.1" Active Clr	$3781.
560	Pentium™/133	8MB	1.08GB	12.1" Active Clr	$4063.
560	Pentium™/133	8MB	2.1GB	12.1" Active Clr	$3858.

LOW LOW PRICES!!
Yorba Linda, CA (714) 692-9120 or (714) 692-9420 Fax
Alameda, CA (510) 337-9034 or (510) 337-9036 Fax
St. Louis, MO (314) 366-4388 or (314) 366-4401 Fax
• FCS is not responsible for any typographical errors.
• Advertised prices reflect 3% cash discount.
• Some of the advertised products are factory close-outs or reconditioned.
FCS FUTURE COMPUTING SOLUTIONS INCORPORATED
Internet Address: www.fcsinet.com

@www.

CLASSIFIED

ZDNet Marketplace Shop www.marketplace.zdnet.com. Hundreds of ads, plus links to the web sites of @www. advertisers.

PENTIUM II SYSTEM

- Intel Portland Motherboard
- Intel Natoma 440FX Chipset
- 512KB L2 Cache per CPU
- 32MB EDO RAM
  512MB RAM Maximum
- 3.1 GB EIDE Hard Drive
- 24X EIDE CD-ROM Drive
- Matrox Millennium 3D 64-bit PCI
  4MB MDRAM & MPEG
- Teac 1.44MB Floppy Drive
- Galaxy ATX Mid Tower Case
  Built-in 2nd Fan & Air Filter
- 235W UL Power Supply
- 104-Key Win95 Keyboard
- MS 2-Buttom PS/2 Mouse
- MS Windows NT 4.0 Station
- On-Site Services Optional

Microsoft NT 4.0 Compatible

Pentium II 233 ..... $1979

Pentium II 266 ..... $2149

PENTIUM NOTEBOOK

- Intel Pentium Processor
- 12.1" SVGA Display
- 256KB Pipelined Cache
- 16MB EDO RAM
  72MB RAM Maximum
- 2MB PCI Video w/MPEG
  Support TV Output Jack
- 1.4GB EIDE Removable HDD
- 10X EIDE CD-ROM Drive
- 1.44MB 3.5" Floppy Drive
- Type III 32-bit PCMCIA
  Cardbus Sockets
- Lithium-Ion Battery 2 Hours
- 16-Bit Stereo Sound Systems
- Built-in Infra-Red Port
- Microsoft Windows 95 CD
- Video Capture Card

Novell Certified #W-5425

Intel MMx 166 ..... $2599

Intel MMx 200 ..... $2889

MMX SYSTEM

- Intel Pentium Processor
- Intel Triton 430VX Chipset
- 512KB Pipelined Cache
- 16MB EDO RAM
  128MB RAM Maximum
- 1.2GB EIDE Hard Drive
- 16X EIDE CD-ROM Drive
- Diamond Stealth 64 PCI Video
  2MB EDO RAM & MPEG
- Teac 1.44MB Floppy Drive
- Perfect Mid-Tower Jr. Case
- 230W UL Power Supply
- 104-Key Win95 Keyboard
- MS 2-Buttom Serial Mouse
- Microsoft Windows 95 CD
- 50 Watts Amplified Stereo Speakers
- On-Site Services Optional

Microsoft NT 4.0 Compatible

Intel MMx 166 ..... $819

Intel MMx 200 ..... $939

Intel MMx 233 ..... $1089

WE CAN CUSTOMIZE ANY SYSTEM TO MEET YOUR REQUIREMENTS !

HIGHWAVE TECHNOLOGIES, INC.

TEL: (408) 432-3888 FAX: (408) 432-3899

E-mail: highwave@highwavetech.com

1520 Montague Expressway, San Jose, CA 95131

Government, School & Corporation P.O.'s are Welcome

PRICES SUBJECT TO CHANGE W/O NOTICE. NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS. PRICES REFLECT 3% CASH DISCOUNT

CIRCLE 512 ON READER SERVICE CARD

Home Study

ACCREDITED B.S. DEGREE in Computer Science

Easy-to-study lessons in Multimedia, C, C++, Windows 95, Java, Visual Basic, Networks, Unix, Database Design, Software Design, & many more lead to the only home-study BSCS degree accredited by an agency recognized by the U.S. Department of Education.

Professional software & hardware provided at no extra charge. Programs in Computer & Electronics Engineering Technology as well. All accredited by the Distance Education and Training Council and VA approved. Our 47th year.

Free Catalog. Call *Toll Free*

1 (888) GCE-4242

GRANTHAM College of Engineering

Grantham College Rd., Slidell, LA 70469-5700

COMPUSTAR 800 369-5411 WWW.CSTR.COM COMPUSTAR 800 369-5411 WWW.CSTR.COM

5x86 133 Mboard $99

16Mb Simm $69

P5-200 Mboard $299

MS Office 97 Pro $199

(800)-369-5411

http://www.cstar.com

Sales:718-853-7888 Fax:718-854-1820

CompuStar Computer

59 Church Ave., Brooklyn, NY11218

Mon-Fri 10am-7pm, Sat 10am-5pm, Sat Call, VISA/MC/AE, 30days money back. 25% restocking fee, we check for mail/credit fraud, shipping not refundable, all products in OEM packages, price subject to change without notice.

COMPUTER SYSTEM

CompuStar System, 16MB EDO RAM, 256k cache, 2MB SVGA Full Motion Mpeg video card, 1.44Mb floppy drive, 2.5GB Hard Drive, 16X CD-ROM, 3D 16bit Sound Card, 33.6k voice/fax/modem, 15" SVGA Monitor, 16 softwares, keyboard, Mouse, 1 year warrenty.

Intel Pentium 166Mhz	$1199	Intel Pentium 166 MMX	$1249
Intel Pentium 200Mhz	$1299	Intel Pentium 200 MMX	$1479
Cyrix 6x86 P166+	$1059	Cyrix 6x86 P200+	$1079

SOFTWARE

Call for 5-50% Educational Discount

Microsoft Windows 3.11 & DOS 6.22	$79
Microsoft Window 95/Win 95 Upgrade	79/$89
Microsoft Office 97 Professional AE	$199
Microsoft Office 97 Professional OEM	$179
Microsoft Office 97 Pro/Std	$399/$299
Microsoft Office 97 Pro/Std Upg	$249/$179
Microsoft Publisher 97	$89
Microsoft Win NT 4.0 Server	$489
Microsoft Win NT 4.0 Wkst/Upgrade	$219/$169
Microsoft Win NT 4.0 OEM	$169
MIcrosoft Project 97	$329
Microsoft Visual C++ Pro/Std	$149/$99
Microsoft Visual Basic 3.0	$139
Microsoft Visual J++	$79
Microsoft Visual Studio Full/Upg	$869/$419
Microsoft BackOffice 2.5	$1899
Microsoft Exchange Server 5.0	$499
Borland C++ 5.0	$69
Intuit Quicken 97	$59
Intuit QuickBook 5.0	$69
Corel Office Professional 7.0 AE	$149
Corel WorkPerfect Suite 7.0 AE	$99
Corel Draw 7 AE	$159
Corel Draw 7 Full	$349
Corel Draw 7 Upgrade	$239
Norton Anti-Virus 95	$59
Norton Utilites 95	$89
NetScape Navigator	$49
Lotus 1-2-3 97 AE	$69
Lotus 1-2-3 5.0 & AmiPro AE	$169
Lotus Approach 96	$89
Lotus Organizer 96	$79
Lotus SmartSuite 96	$99
Lotus Note 4.1 Client/Server	$319/$539
Novell Netware Small Business	$569
Novell Netware V4.11 5/10 users	$579/$1259
Novell Netware V4.11 25/50 users	$1899/2599
Novell Netware OEM/Upgrade	Call

CD-Recorder

Panasonic 4x2x CD Recorder	$299
Panasonic 4x2x CD Recorder Kit	$349
Yamana 6x4x CD Recorder	$649
Yamaha 6x4x CD Recorder Kit	$759
CDR 74Min/650Mb Blank CD	$4.59

MEMORY

4X9 (3-Chip) 4MB 30pin SIMM	$29
4MB(1x32/EDO/1x36)72pin Simm	$29
8MB(2x32/EDO/2x36)72pin Simm	$39
16MB(4x32/EDO/4x36)72pin Simm	$69
32MB(8x32/EDO)72pin Simm	$159
64MB (16x32) 72pin SIMM	$389

MOTHER BOARDS

Mainboard w/CPU,cache, Multi-I/O port

5x86-133Mhz, 3 PCI/4 ISA, w/b cache	$99
Triton P5 120Mhz, 256k, 4 PCI/3 ISA	$189
Triton P5 133Mhz, 256k, 4 PCI/3 ISA	$199
Triton P5 166Mhz, 256k, 4 PCI/3 ISA	$279
Triton P5 200Mhz, 256k, 4 PCI/3 ISA	$299
P5 166Mhz MMX, 256k, 4 PCI/3 ISA	$349
P5 200Mhz MMX, 256k, 4 PCI/3 ISA	$499
Cyrix 6x86 P133+, 256k, 4 PCI/3 ISA	$169
Cyrix 6x86 P150+, 256k, 4 PCI/3 ISA	$189
Cyrix 6x86 P166+, 256k, 4 PCI/3 ISA	$229
Cyrix 6x86 P200+, 256k, 4 PCI/3 ISA	$249
AMD 5k86-166, 256k, 4 PCI/3 ISA	$169
AMD 6k86-166, 256k, 4 PCI/3 ISA	$329
AMD 6k86-200, 256k, 4 PCI/3 ISA	$399
Pentium Pro 150Mhz, 256K, 3 PCI/4 ISA	$499
Pentium Pro 200Mhz, 256K, 3 PCI/4 ISA	$999

PRINTERS

HP DeskJet 670C	$189
HP DeskJet 694C	$279
HP LaserJet 5L Extra	$379
HP LaserJet 6P	$699
EPSON Stylus 600	$279

HARD DRIVES

Western Digital, Maxtor, Seagate

1000Mb E-IDE Drive	$169
1200Mb E-IDE Drive	$179
1600Mb E-IDE Drive	$189
2000Mb E-IDE Drive	$199
2500Mb E-IDE Drive	$229
3000Mb E-IDE Drive	$259

CD-ROM

Acer, Toshiba, SamSung

12 Speed IDE	$89
18 Speed IDE	$99
24 Speed IDE	$109

VIDEO CARDS

ATI 3D 4MB SGBRAM	$119
Diamond 3D 4MB EDO	$99
Mystique 3D 4MB EDO	$139
Trident 3D 2MB DRAM	$79

MODEMS

USRobotic, Zoltrix, Acer

33.6k Voice/FaxModem	$69
56k Voice/FaxModem	$89

MULTI-MEDIA

Sound Blaster 16	$59
Sound Blaster 32	$89
Sound Blaster 64	$179
8X Speed CD-ROM Kit	$149
12X Speed CD-ROM Kit	$159
16X Speed CD-ROM Kit	$179

MONITORS

Acer, CTX, MAGnovation, SONY

14" SVGA Monitor	$189
15" SVGA Monitor	$249
17" SVGA Monitor	$499

ACCESSORIES

1.44MB 3.5" Floppy Drive	$29
800Mb Tape Drive	$139
Ethernet ISA Card	$25
Ethernet PCI Card	$39
104-key Keyboard	$19
3 Button Mouse	$9

COMPUSTAR 800 369-5411 WWW.CSTR.COM COMPUSTAR 800 369-5411 WWW.CSTR.COM

@www. or CIRCLE 513 ON READER SERVICE CARD

Become a PC repair expert!



Career-level home study. Learn to troubleshoot, repair, install, upgrade, and service personal computers. Be more valuable on the job or open your own business.

Free career literature: call now 800-223-4542

The School of PC Repair, Dept. JJL685
PCDI, 6065 Roswell Rd., Atlanta, GA 30328

MAKE MORE MONEY AS A MEDICAL TRANSCRIPTIONIST!

Home study course. Make up to $30,000 *or more* per year. Be in demand converting doctors' notes and audio tapes into finished reports. Work in a medical practice, hospital, or clinics—or in your own home.

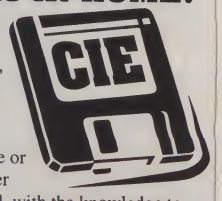
WORK AT HOME

FREE LITERATURE: 800-223-4542

The School of Medical Transcription
PCDI, 6065 Roswell Road
Dept. YYL685, Atlanta, Georgia 30328

CIRCLE 514 ON READER SERVICE CARD

Learn Computers While At HOME!



Through independent study, CIE will provide an individual, having little or no computer background, with the knowledge to write Database & C Language computer programs for personal and professional use. Call 1-800-243-6446 for your *Free* Catalog. **Start Training For Your New Career Today!**

Photo copy and mail.

Name: _____

Address _____

City _____

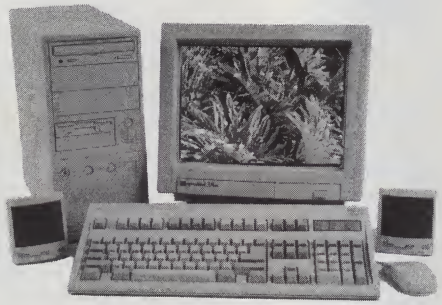
State _____ Zip _____ MAIL TO CIE:
1776 E. 17th St, Cleveland, OH 44114 Dept PC 06

CIRCLE 515 ON READER SERVICE CARD

HiQ Your Computing Solutions Partner

Corporate, Government, and Educational POs Welcome

Based on the idea that clients deserve a higher level of service, support and quality, HiQ Computers was founded in Silicon Valley in 1986. Never losing sight of those founding principals, HiQ Computer has changed the PC landscape from an industry dominated by centralized mail order outlets, to an industry where local support and old-fashioned service has become the norm.



With SEVEN NATIONAL OFFICES, over one hundred professionals and thousands of satisfied customers, HiQ sets the standard for exceptional service, support, prices and most important, lightning-fast machines that allow you to achieve your goals. Fortune 1000 companies, colleges, federal and state government agencies and home users have chosen HiQ as their supplier of information systems. That's not surprising, because we've consistently been rated favorably by the press, winning many of the computing industry's most sought-after awards including Five Star Ratings from PC Computing and PC Magazine's Editor's Choice Award.

From individual multimedia systems to multi-processor networked RAID servers, HiQ stocks a full-line of workstations, peripherals and networking components. For a competitive quote, feel free to contact one of our offices listed below nearest you!

Call for latest pricing!

HiQ P6-PRO 200
Intel Pentium® Pro 200 Mhz

- Intel P6-Pro Motherboard
- PC Power & Cooling Heat Sink Fan
- 32MB EDO RAM
- 2.5GB EIDE Hard Drive
- Matrox Mystique 220 Business 2MB SGRAM
- 16x CD-ROM Drive
- x• Soundblaster 32 Wave Table
- Windows 95 CD-ROM Version
- Office Professional 97 CD-ROM Version
- ATX Mid Tower Case
- Labtec CS800 Speakers
- 104 Keytronics PS/2 Keyboard
- Microsoft PS/2 Mouse
- 15" Panasonic S15 Monitor
- HiQ Warranty: Three Year Parts, One Year Labor

$1759

- Upgrade to 64MB EDO RAM $139
- Upgrade to 17" Panasonic S17 ..... $249
- Include US Robotics 33.6 Fax/Modem $99

HiQ 6x86MX Power Station
Cyrix 6x86MX 233 Mhz

- CPU Heat Sink Fan
- 32MB SDRAM
- 1.44MB Floppy Drive
- 2.1GB Ultra ATA Hard Drive
- Matrox Millennium II 4MB WRAM Video
- 24x CD-ROM Drive
- Soundblaster 32 Wavetable
- Windows 95 CD-ROM Version
- ATX Mid Tower Case
- Labtec CS800 Speakers
- 104 Keytronics Keyboard
- Microsoft Mouse
- 15" Panasonic S15 Monitor
- HiQ Warranty: Three Year Parts, One Year Labor

$1999

- Upgrade to 64MB EDO RAM $139
- Upgrade to 17" Panasonic S17 ..... $249
- Include US Robotics 33.6 Fax/Modem $99

HiQ K6-PR200
AMD K6-PR200 Mhz

- Intel 430TX Chipset
- PC Power & Cooling Heat Sink
- 16MB EDO RAM
- 1.44MB Floppy Drive
- 1.7GB EIDE Hard Drive
- Matrox Mystique 220 Business 2MB SGRAM
- 16x CD-ROM Drive
- Soundblaster 16 Sound Card
- Windows 95 CD-ROM Version
- Office Professional 97 CD-ROM Version
- ATX Mid Tower Case
- Labtec CS800 Speakers
- 104 Keytronics PS/2 Keyboard
- Microsoft PS/2 Mouse
- 15" Panasonic S15 Monitor
- HiQ Warranty: Three Year Parts, One Year Labor

$1439

- Upgrade to K6-PR200 ..... $149
- Upgrade to 32MB EDO RAM $59
- Upgrade to 17" Panasonic S17 ..... $249
- Include US Robotics 33.6 Fax/Modem $99

HiQ P5-166MMX™
Intel P5MMX™ 166 Mhz

- Intel 430VX Chipset
- PC Power & Cooling Heat Sink
- 16MB EDO RAM
- 1.44MB Floppy Drive
- 1.7GB EIDE Hard Drive
- Matrox Mystique 220 Business 2MB SGRAM
- 16x CD-ROM Drive
- Soundblaster 16 Sound Card
- Windows 95 CD-ROM Version
- Office Professional 97 CD-ROM Version
- Mid Tower Case
- Labtec CS800 Speakers
- 104 Win 95 Keyboard
- Microsoft Serial Mouse
- 15" Panasonic S15 Monitor
- HiQ Warranty: Three Year Parts, One Year Labor

$1359

- Upgrade to P200MMX $100
- Upgrade to 32MB EDO RAM $59
- Upgrade to 17" Panasonic S17 ..... $249
- Include US Robotics 33.6 Fax/Modem $99

HiQ MGX Home Station
Cyrix MediaGX 133 Mhz

- 16MB EDO RAM
- 1.44 Floppy Drive
- 1.7GB EIDE Hard Drive
- Integrated Video
- 12x CD-ROM
- Integrated Sound
- Windows 95 CD-ROM Version
- Desktop Case
- Labtec CS800 Speakers
- 104 Win 95 Keyboard
- Serial Mouse
- 15" Panasonic S15 Monitor
- HiQ Warranty: Three Year Parts, One Year Labor

$999

- Upgrade to 32MB EDO RAM $59
- Upgrade to 17" Panasonic S17 ..... $249
- Include US Robotics 33.6 Fax/Modem $99

Next Day Shipment on Advertised Systems*

1.800.827.5836

www.hiq.com

AMD

intel inside

Cyrix

3 Year Limited Warranty

LOCATIONS NATIONWIDE

- SUNNYVALE, CA 800.827.5836
- SAN ANSELMO, CA 800.929.1893
- ATLANTA, GA 800.875.2882
- BOSTON, MA 800.249.1886
- CHICAGO, ILL 800.819.4588
- DENVER, CO 303.338.1300
- SACRAMENTO, CA 916.635.7842

HiQ

*Systems must be ordered before 1PM (store's respective time zone) and not deviate form the standard advertisement system • All returned items must have a return merchandise authorization number (RMA) and must be in original packaging. • The cost of return freight is not included with any money-back guarantees. Shipping charges are non-refundable • Prices and product descriptions are subject to change without notice • HiQ Computer Systems cannot be responsible for omissions or errors in typography or photography • Pentium and Intel inside logo are registered trademarks of the Intel Corporation • Some of the names and trademarks shown herein may be property of other companies • HiQ Computer Systems, Inc., 1997, all rights reserved

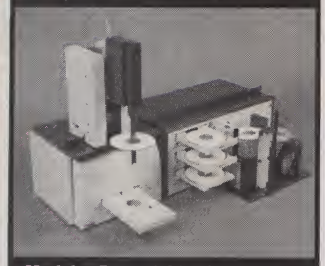
@www. or CIRCLE 516 ON READER SERVICE CARD

CLASSIFIED
ZDNet Marketplace
Shop www.marketplace.zdnet.com Hundreds of ads, plus links to the web sites of many advertisers.

CLASSIFIED
ZDNet Marketplace Shop www.marketplace.zdnet.com. Hundreds of ads, plus links to the web sites of @www. advertisers.

Leverage your Website
Put it on CD with
CD\Web
Call, fax, or email for info.

CD Replication
Adobe Acrobat™ Specialists
CD\Works™
www.cdworks.com
CD copies - same day service
800-CDWORKS
800-239-6757 • 617-482-2759
Fax 617-482-0403
E-mail: infpcc@cdworks.com
Replication Special
1,000 Duplicates $999
Includes 2 color label
365 Washington Street, Boston, MA
CIRCLE 517 ON READER SERVICE CARD

Unbelievable !!!
▲ CD-R Duplicator LOADED $1,995
▲ +"Signature" CD Color Printer $1,295
▲ Upgrade to FULLY AUTOMATED $2,995

Modular Expandable, Standalones
1-888-276-7992
Fax 510-417-2903
http://www.costas-systems.com
email: costasys@ix.netcom.com
@www. or CIRCLE 518 ON READER SERVICE CARD



MITSUI GOLD
. . . all straight A's?
You can Ace the CD-R game too with a little help from AMC and:
Mitsui Gold recordable CD-Rom media.
✓Absolutely the Best CD-R's in the world and backed by the only lifetime warranty in the business.
✓Affordable 10-disc sample pack available for only $29.99.
✓All you'll need to burn your own CD-Roms and all from one place. Call AMC today at 1-888-558-3133 and be sure to mention ad code PCC10C when ordering.
AMC. Complete Multimedia Solutions.
ADVANCED MULTIMEDIA CONCEPTS
P.O. Box 3456 Redmond, WA 98073-3456
888-558-3133 www.pcc.amc-direct.com
@www. or CIRCLE 519 ON READER SERVICE CARD

Macintosh On PC
If you compute in a mixed environment – PC at work, Mac at home; PC and Mac at work, etc. – here's great news. Now your PC can open, read and write Mac media and run many Mac applications! Complex spreadsheets? No problem. Your PC can run Mac apps fast enough to even play high-speed games. If you need to use both platforms, call toll-free today.
+1 888 BUY ARDI
ARDI Free Demo On Web
www.ardi.com
CIRCLE 520 ON READER SERVICE CARD


INTRODUCING AWARD WINNING
Afrocentric
ELECTRIFYING ELECTRONIC
CLIP ART
300 piece package Ethnic Images, signs, borders & color african fabric prints on 10-3.5in disk for pc windows bmp files.
• PREMERE OFFER $55. TOTAL
MAKE PAYMENT TO: WACP
3665 B FLATSHOALS Dr. Suite 414
Decatur, Ga. 30034 or
Visit: http://www.wacp.com
@www. or CIRCLE 521 ON READER SERVICE CARD


DATA RECOVERY
Lost your data? Don't panic CALL!
800-886-2231
Free evaluation!
✓24-hour ✓priority
✓weekend ✓on-site
• DOS
• Windows 95 & NT
• Mac
• Novell
• Unix
• OS/2
• Virtually all operating systems
• Competitive prices
• Clean-room facilities
visit our Web site
www.datamechanix.com
DATA MECHANIX 18271 McDurmott, Suite B, Irvine CA 92714
telephone: 714-263-0994 facsimile: 714-263-1549
@www.

FREE!!! INTERNET BUSINESS
DOWNLOAD TODAY! START TODAY!
Everything you need to start your own business and make money on the internet now!
netAD.com
THE WORLD'S CLASSIFIED AD SECTION
www.netad.com/makemoney

ECO Data Recovery
Win95+NT, DOS, MAC
Novell, OS/2
• FLAT RATE
• NO EVALUATION FEE
• 18 YEARS EXPERIENCE
• 24 HR. SERVICE AVAILABLE
• CALL US LAST!
800-339-3412
561-691-0019 • 561-691-0014 Fax
www.eco-datarecov.com
4115 Burns Rd. Palm Beach Gardens, FL 33410
@www. or CIRCLE 511 ON READER SERVICE CARD

ZDNet Marketplace
Location: http://www.marketplace.zdnet.com
SHOP THE WEB
Go to ZDNet Marketplace, a searchable database of hundreds of ads for everything computer related.
http://www.marketplace.zdnet.com
ZDNet Marketplace™

BABYLON X
RARE COLLECTORS PIX!
100% GENUINE
HARDCORE BEDROOM POLAROIDS
SNEAKY PAPARAZZI HOT-SHOTS!
- MADONNA HARDCORE SHOT!
- PRINCESS DIANA BARES ALL!
- PAMELA ANDERSON'S WEDDING VIDEO!
- AGENT SCULLY'S PINK GULLY!
- CINDY CRAWFORD,
- BARBRA STREISAND!
Don't miss out - get in NOW! While they're still there!
School Girl Strip
LIVE IN YOUR BROWSER!
24 Hours a Day, 7 Days a Week
www.babylon-x.com
ADULTS ONLY - MUST BE 21 YEARS OR OLDER

4livesex.com
Live Girls
No downloads
Picture gallery
1000's updates
Adult Video Clips
Adult Mall
Kinky Personals
Erotic Confessions
Erotic Chat Room
Unlimited Monthly Access
must be adult 18 & over

SEXWorld
http://www.phuk.com
16 HARDCORE SITES FOR ALL SEXUAL FANTASIES
WE KNOW YOU'LL COME SEE US AGAIN AND AGAIN
18+ ONLY

www.HH.nl
& Heavy
- 100000 hot pictures to download
- First VR/3D pictures on the Net
- Huge free Sex-Superstore
- Hundreds of Videoclips to view Online
- Free live chat and swinging area

HOT MALE
www.HOTMALE.com
Gorgeous guys in 2D or 3D photos • Erotic Gay Videos to view Online • Int'l free cruising area • Ultra Hot Chats to meet your mate • Exciting and rare videos and toys
THE ADULT MALL CENTRAL
www.h2g.com
2000+ Hard to find US or European Videos, Toys and Magazines - Worldwide delivery - Secure transactions
www.SEXMOVIE.com
200+ Videos to view Online without added Software
adults only 18+

THESE ADS WORK!
3 IN 5 OF THOSE WHO READ MARKETPLACE ADS BUY OFF THE PAGE.
ADVERTISE HERE, WHERE BUSINESS COMPUTING BUYERS BUY DIRECT! CALL 800-825-4237 TODAY!
Source: 1996 PC Computing Marketplace Subscriber Study

Exciting and New!
http://www.liveamerica.com
Free Pics – No Tricks...and much more!
Male and Female Exotic Dancers
LIVE and in real time
LIVE Sex Chat – no downloading
Adult Products • CD ROMs • Videos
24 hour Service • No Membership Fees
18 and older
Win! Win! Win! Vegas Trips Cash & Prizes!
www.liveamerica.com

There are over 10,000 adult sites on the net...
Most of them suck!
Come to us for access to the very best adult pages on the web.
ALWAYS FREE!!!
THE Adult Oriented SITE OF THE DAY
www.aosotd.com
Adults only 18 and over
CIRCLE 522 ON READER SERVICE CARD

FREE LIVE FREE LIVE
FREE LIVE FREE LIVE
FREE LIVE FREE LIVE
FREE LIVE FREE LIVE
FIFTEEN (15)
LIVE ADULT ROOMS!
TRY IT FOR FREE RIGHT NOW!!!
www.freelive.com
Live Girls ANYTIME...
310-858-4999
Adults Only
CIRCLE 523 ON READER SERVICE CARD

THE BEST PLACE ON THE WEB TO SHOP FOR ANYTHING COMPUTER RELATED JUST GOT BETTER!
http://www.marketplace.zdnet.com
ZDNet Marketplace

The RED LIGHT district AMSTERDAM
WWW.FUN.NL
"We have it all, We show it all"
PICS - LIVE SEX - VIDEO - DATING - AMATEURS-VIDEO CHAT-
NEW INTERACTIVE VIDEO ON DEMAND
NO DOWNLOADING NO PLUG-INS
ADULTS ONLY !!
CIRCLE 524 ON READER SERVICE CARD

FREE! FREE! FREE! FREE!
THE WORLD'S LARGEST EROTIC SITE
http://www.4sex.com
FREE LIVE B&W VIDEO CONFERENCING
FREE LIVE B&W VIDEO CONFERENCING
FREE LIVE B&W VIDEO CONFERENCING
FREE LIVE B&W VIDEO CONFERENCING
FREE LIVE B&W VIDEO CONFERENCING
FREE LIVE B&W VIDEO CONFERENCING
FREE B&W LIVE VIDEO CONFERENCING WITH $2.95 TRIAL MEMBERSHIP
ALL SITES:
• STRAIGHT • GAY •
• SHEMALES • S&M •
• AMATEURS •
• NO DOWNLOADING
• NETSCAPE BROWSER COMPATIBLE
18 & Over
http://www.4sex.com
FREE! FREE! FREE! FREE!
CIRCLE 525 ON READER SERVICE CARD

Hardcore Underground Sex Sites
- Strange/Rare Pics
- Updated Daily!
- 40+ Categories
including...
•AMATEURS•BIZARRE•BONDAGE•
•BUSTY•CHEERLEADERS•HARDCORE•
•PUBLIC NUDITY•TS/TV•YOUNG GIRLS•
Plus Many More!
www.sexsites.com
LIVE SEX SHOW!
Live Girls-24 Hours
1-800-617-6699
Adults Only!

Sohot

Shared Scanning

What's the cheapest way to track and share your documents and images? Presto PageManager Network Version turns your scanner into an image-processing workhorse. Set up a dedicated scanner and a PC, and you can send an image or a document to anyone on your network.

Presto PageManager Network Version / NewSoft / (800) 436-4365 / $79 est. street price for two users / *Reader Service No. 786*



Take My Calls

If you want to screen your calls, YoYo Telephone Manager (above) is the answer to your prayers. YoYo intelligently filters, forwards, and manages your incoming calls with caller ID and an easy-to-use interface.

YoYo Telephone Manager / Big Island / (800) 788-7751 / $99 est. street price / *Reader Service No. 787*

Remote Control

Aitech's PC/TV AirLink beams your PC screen to your television with a special transmitter and receiver.

PC/TV AirLink / Aitech Int'l / (510) 226-8960 / $399 est. street price / *Reader Service No. 788*

PHOTOGRAPHS BY ARNOLD TIOSEJO

Mobile Gadgets

Road Warriors

You love your notebook—especially when you pull it out on a plane to play Quake, knowing you're the envy of your fellow passengers. Here are a few ways to make your mobile experience even more sublime. . . .

Mighty Mouse One thing most people don't love about their notebook is the pointing device. No matter how much companies tout the usability of pointing sticks and touchpads, nothing beats a mouse. Logitech has just the thing for the road warrior, MouseMan for Notebooks. It's got a short cord so there are fewer tangles in tight workspaces. And it's easy to pack up and transport since it weighs less than a regular mouse. Logitech MouseWare 7.2 software with HyperJump and CyberJump (for easy Windows 95 and Web navigation) make it the perfect mobile mouse ($50 est. street price; 800-231-7717). . . .

I Can See You E-mail and cellular phones are great for staying in touch with colleagues and clients when you're out of the office, but they can't replace a face-to-face meeting. Get that important face time no matter where you are with Winnov's VideumCam Traveler videoconferencing solution. It's travel-friendly with a tiny camera that houses both the AV board and the camera's electronics. Simply plug it into your notebook via a PC Card. At 30 fps, the video quality isn't bad either ($299 est. street price; 888-494-6668). . . .

Portable Power Iomega's Zip drive is great for taking files with you when you travel, but what if there's no outlet handy to plug it in? Add Iomega's 9-ounce Zip Unleashed battery pack (right) and power your Zip drive for up to three hours. You just plug the pack into a wall outlet to recharge it ($49 est. street price; 800-697-8833). . . .

Plug Me In When you finally make it back to the office, you'll need to transfer data from your PC Card to your desktop system. Simple Technology makes it easy with its SimpleStation internal PC Card adapter. SimpleStation installs in any desktop system's drive bay and supports all types of PC Cards, modems, network adapters, and memory storage. It's also hot-swappable and the bundled 16-bit ISA interface provides high-speed transfers for accessing your data quickly and easily ($149 est. street price; 800-367-7330).

LIESL LA GRANGE NOBLE



Zip It Up: For portable power, try Iomega's Zip Unleashed.

Reader Service Numbers: MouseMan, *789;* VideumCam Traveler, *790;* Zip Unleashed, *791;* SimpleStation, *792*

SO DEDUCT IT — TIMEX DATALINK

What you tell your accountant:
"Now I can stay on schedule no matter where I am."

What you tell your friends:
"Dick Tracy? What a loser! Can he synchronize *his* watch with his PC? I don't think so. My DataLink glows in the dark too."



DataLink / Timex / (800) 367-8463 / $140 est. street price / *Reader Service No. 793*





Frustrated by Windows® problems? Get First Aid. It fixes more Windows problems more automatically than any other software on the market today. So why get frustrated? Get First Aid.

Pick up a copy today at your local retailer, or call 1.800.841.3539 ext. 16 to order direct.
To download a free trial copy, visit our website at www.cybermedia.com/comp2

CYBERMEDIA®
MORE POWER TO YOU™

Circle 178 on reader service card.

Instant Photo Prints

So you're well equipped with a digital camera and have tons of digital images stashed away on your hard drive. No one ever made it clear what to do with all those great shots, did they? A photorealistic snapshot printer can turn those files into photos that you can share with your computer-challenged friends

for as little as $400, or around $1 per print.

The usefulness of these printers isn't limited to camera images. They're also handy for printing digital images created by scanners and video-capture devices or photos you find on the Internet.

We put five photo printers through their paces. Two, the Panasonic TruPhoto Digital Photo Printer and the Fujifilm Print-It NC-2, use



True Colors: Panasonic's TruPhoto is our top usability pick for its low cost and high-quality output.

TruPhoto Digital Photo Printer / Panasonic Interactive Media / (888) 726-2746, (408) 653-1888 / $399 est. street price / *Reader Service No. 794*

photosensitive paper and a technique called thermo-autochroming. The other three—the Sony Digital Color Printer DPP-M55, the Fargo Electronics FotoFun Digital Color Photo Printer, and the Casio DP-8000 Larger Format Digital Photo Printer—use standard dye-sublimation technology. The thermo-autochrome and dye-sub models are capable of printing up to 16.7 million colors in continuous tones, creating vibrant color glossy prints up to 4 by 6 inches. Print speeds are anywhere from 70 seconds to 2 minutes per photo depending on image size, with thermo-autochrome printers taking a few seconds longer than dye subs.

The printers range from $399 to $499 and include a paper starter pack and—except for the Casio—a basic image editor for cropping, retouching, or adding special effects to your photos. The dye-sub printers also come with a ribbon.

Although these printers give you far better output than an average color ink jet, print quality varied from excellent to disappointing. Still, if what you want is the convenience of instant digital photo prints without expensive trips to the local photo lab, you'll get plenty of use out of a color photo printer.

See the Light No ink. No ribbon. No toner. Paper is the only consumable you need for Panasonic's innovative TruPhoto Digital Photo Printer. Even better, the TruPhoto delivers the sharpness and color fidelity you'd expect of pictures developed from film.

The TruPhoto's thermo-autochrome process relies on special paper that includes color information in layers. You get 10 sheets of paper with the unit, but 20-sheet supplemental packages are available for $14.95, or 75 cents per print—the lowest per-print cost of the five printers. The TruPhoto includes a copy of MGI PhotoSuite SE software for editing and reducing images to the correct print size.

The TruPhoto also gets kudos for being one of the only printers in our roundup to include a printer cable.



Easy Printouts: The Print-It prints directly from your PC or any video source, but its output is disappointing.

Print-It NC-2 / Fujifilm / (800) 378-3854, (914) 789-8100 / $399 est. street price / *Reader Service No. 795*

Fuzzy Photos Like the Panasonic TruPhoto, the Fujifilm Print-It NC-2 uses thermo-autochrome



Dye Job: The Sony DPP-M55 produced the best dye-sub output with brilliant colors and easy controls.

Digital Color Printer DPP-M55 / Sony Electronics / (800) 326-9551, (408) 432-1600 / $499 est. street price / *Reader Service No. 796*

technology for producing images. However, unlike the TruPhoto, the Print-It NC-2's prints weren't up to snuff.

Except for its ability to accept printer input from a VCR or camcorder, the Print-It appears mechanically identical to the Panasonic TruPhoto. But despite the Print-It NC-2's hardware similarities to the TruPhoto, we found Print-It's output inferior to that of the TruPhoto. Printouts appeared out of focus and had the worst color saturation in the roundup (oversaturation turned much of the yellow to orange). The Print-It's maximum print area averaged only 3.3 by 5 inches.

PHOTOGRAPHS BY MARK JOHANN

MORE PROFIT! MORE SALES! MORE CUSTOMERS!

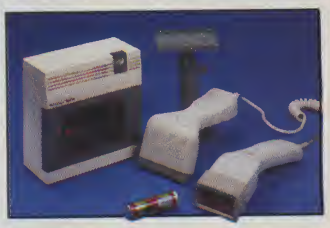


Save Time, Reduce Theft, Speed Checkout with The General Store Retail Management System

Since 1983, **The General Store** has been the system of choice by thousands of retail and chain stores nationwide. Known for its ease of use, flexibility, and lightning speed, **The General Store** is ideal for most retail environments. At $395, **The General Store** starter kit offers over 250 of the most desired point of sale features. A clerk can learn to use it in minutes. Your customers are processed in seconds.

SOFTWARE

PC AMERICA
HARDWARE SOLUTIONS





Increase your profits by more than 25%

Computerization pays for itself, saving you thousands of dollars, giving you peace of mind, and making the best use of your time. The General Store, with over 250 of the most desired point of sale features, will help you leapfrog past your competition by controlling costs, reducing errors and increasing efficiency.

- **Quicker Checkout**-barcode scanning (50% faster than a cash register), instantaneous no wait receipt printing system, automatic credit card verification, split tender, product lookup by any word, new items added at POS
- **Increased Accuracy**-100% accurate built-in barcode scanning and printing, instant price lookup, price quotes, serial number tracking, multiple pricing levels, multi-unit pricing (i.e. 3/$1.00)
- **Reduced Theft**-cash register reconciliation, salesperson tracking, password protection, pole display sale verification, accurate inventory tracking
- **Cost Reductions**-real time inventory control, dynamic update of item sales and inventory data, reorder point alarms, extensive reporting capabilities, multi vendor P.O. selection (5 vendors per item)
- **Better Business Decisions**-detailed reports and financial statements showing the status of your business, charge account credit limit checking, parts explosion for kits tracks every inventory item, built-in general ledger, accounts receivable and accounts payable
- **Better Customer Service**-customer purchase history, complete layaway, mail list management, instant customer lookup, multiple price level support by category of customer
- **Unique Features**-powerful size/ color matrix for clothing and shoe stores, electronic scale compatibility, convenience store/gas station pump compatible, supports 99 work stations per store, multi-store ready, FREE file conversions from 32 other POS systems

FREE!
Take a FREE 30-day General Store Test Drive
(call now for details)

Flexible Enough for Any Business

- Apparel/clothing/shoe
- Appliance
- Art gallery
- Automotive/tire
- Beauty salon/supply
- Bicycle/motorcycle
- Book
- Bridal and tuxedo
- Card shop/gift shop
- Computer
- Convenience/fast food
- Dry cleaner
- Eyeglass
- Florist
- Furniture
- Gas station
- Sporting goods/golf/gun
- Grocery/bakery
- Hardware/locksmith
- Health/fitness center
- Janitorial supply
- Lawn and garden
- Jewelry
- Liquor
- Mail order
- Marine supply
- Music/record and tape
- Nail salon
- Office supply/stationery
- Pet
- Pharmacy
- Photography
- Plumbing & heating
- Specialty stores
- Toy /hobby
- Sports cards/uniform
- ...and YOUR STORE!

PC AMERICA PRICE LIST

Using another P.O.S. system? Call for **SPECIAL COMPETITIVE UPGRADE PRICE!!!!**

The General Store Professional Edition (single user, multisite ready)	**$1,295.00**
The General Store Network Edition (multisite ready)	**$1,995.00**
The General Store Starter Kit (abridged version)	**$395.00**
Cash Drawer	~~$199.00~~*
Star/Citizen Receipt Printers	~~$299.95~~*
Pole Display	~~$299.00~~*
CCD Bar Code Reader	~~$399.00~~*
Laser Bar Code Scanner	~~$429.00~~*

* Call for Competitive Prices

DEALERS WANTED!
Join our new dealer program. It's **FREE.** It's the fastest way to make money...**AND** we make it **EASY.** Call now for details.

1-800-PC-AMERICA

Call Toll Free 1-800-722-6374

Phone: 914-267-3500

Circle 179 on reader service card.

PC America
60 N. Harrison Ave.
Congers, NY 10920

Fax: 914-267-3550



This coin from the Isle of Man celebrates inventor Charles Babbage, the "grandfather" of the digital computer.

NEVER IN HIS WILDEST

DREAMS DID HE IMAGINE

THAT SOMEDAY IT

WOULD BE USED TO PAY

THE CABLE BILL.

You can hardly blame him. After all, it's only been a few years now that we've all begun to realize what a powerful tool the computer really is for managing personal finances. And with First Union's Online Access, it's now more powerful than ever. With a touch of a button, you can access accounts, transfer funds, balance your checkbook or pay your bills, seven days a week, 24 hours a day.* And you can access these accounts however you prefer, whether it's America Online®, Microsoft® Money, Quicken® or Cyberbanking® on the Web. To find out more, call 1-800-890-6645 or stop by your local First Union branch. Or visit www.firstunion.com for a demonstration.

©1997 First Union Corp. Member FDIC. All trademarks and registered trademarks are the property of their respective owners. *Transfer of funds and bill payment services available for eligible First Union accounts only.

FIRST UNION

Circle 188 on reader service card.

SohoUsability Test



Blow Up: Fargo's FotoFun outputs big pictures and even lets you print on stickers and postcards.

FotoFun Digital Color Photo Printer / Fargo Electronics / (800) 258-2974, (612) 941-5432 / $499 est. street price / *Reader Service No. 797*

The Print-It installs easily and accepts up to 20 sheets of photosensitive paper. It includes a copy of Adobe PhotoDeluxe for in-depth photo manipulation, and a built-in driver offers basic image-editing tools for smoothing, sharpening, and color-correcting photos.

Worth Every Penny Even though the Sony DPP-M55 is one of the more expensive printers of the bunch, its ease of use, bulletproof documentation, low print cost, and excellent color prints make it our favorite dye-sub printer.

Sony's delicate dye-sublimation ribbon comes in a plastic cassette so it slides into the printer in one piece. There's also little room for error with Sony's spare controls: There's a single on/off switch and a green light on the front to indicate printer status.

Sony includes a Digital Color Printer Utility for spiffing up images before you put them on paper. For a truly killer digital darkroom, the DPP-M55's line-of-sight infrared connection talks to Sony's DSC-F1 digital camera and beams photos directly to the printer.

If you want easy operation and brilliant color prints, the Sony delivers both—in style.

No-frills Fun The Fargo FotoFun, also a dye-sub printer, is a cinch to install, prints one photo at a time, and offers adequate images with an extra protective layer to extend print life.

However, while the Sony and the Casio have one-piece dye-sub ribbon cartridges, the FotoFun requires you to load two tiny, connected tubes of cellophane into the printer while trying not to touch the material. Not easy—and not exactly fun if you're in a hurry for your next print.

FotoFun's paper is longer than most at 7.75 inches, and it has a larger print area than the other printers (a maximum of 4 by 6 inches). The FotoFun's cost per print is 97 cents.



Camera-Compatible Casio's DP-8000 didn't play well with our original desktop system. But after we switched PCs, the drivers installed without

Paired Up: Casio's DP-8000 is a dream to use with a Casio digital camera, but its output could be better.

DP-8000 Larger Format Digital Photo Printer / Casio / (800) 962-2746, (201) 361-5400 / $400 est. street price / *Reader Service No. 798*

SIDE BY SIDE HOW DIGITAL IMAGES COMPARE

Photo printer output depends a lot on the quality of the original image and varies greatly from one printer to the next. Look for true colors, sharpness, and high contrast—watch out for digitized details.



Panasonic TruPhoto: Sharp details and bright colors make the TruPhoto the image-quality winner.



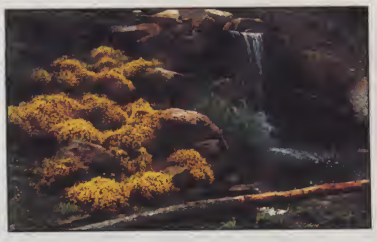
Fujifilm Print-It NC-2: Prints are overly fuzzy, and their color is way off—turning much of the yellow to orange.



Sony DPP-M55: The Sony produces excellent color photos, but its details look overly digitized.



Fargo FotoFun: You can print slightly larger photos with the FotoFun. Its image quality is adequate, but not great.



Casio DP-8000: Photos have poor color balance, and pixels are highly visible.

Picture-perfect

	Casio DP-8000	Fargo FotoFun	Fujifilm Print-It NC-2	Panasonic TruPhoto	Sony DPP-M55
Printer Type	Dye-Sublimation	Dye-Sublimation	Thermo-Autochrome	Thermo-Autochrome	Dye-Sublimation
Max. Print Size	3.2 by 4.3 inches	4 by 6 inches	3.3 by 5 inches	3.5 by 5 inches	5.5 by 3.9 inches
Cost per Print	$1.20	97 cents	75 cents	75 cents	90 cents

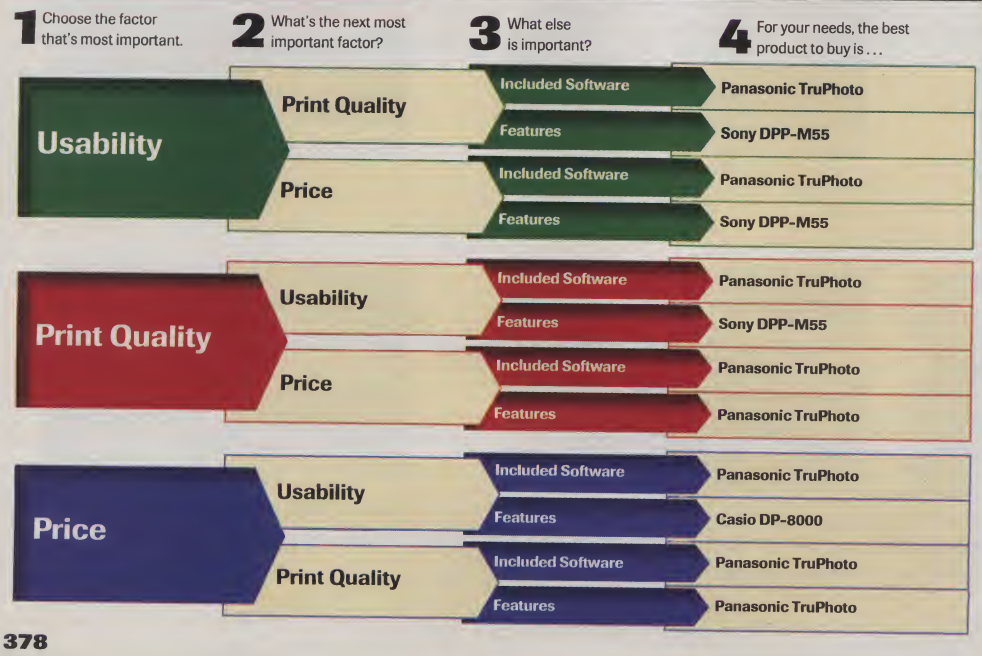
a problem. Like the Sony printer, the Casio DP-8000 uses an easy-to-load dye-sublimation cartridge. An included connection cable lets you send images directly from any Casio digital camera to the DP-8000.

The Casio's cost per print is the highest of all the printers tested ($1.20 per print). The output, however, doesn't justify this price. Most of the printouts showed poor color balance, with overall image quality slightly below that of the other dye-sub printers. More important, the Casio produces the smallest prints, at 3.2 by 4.3 inches. Finally, no image-editing software is included to improve photos; the print driver simply sets up each shot and prompts you for paper before you print.

Print Out Depending on your camera and preferences, there's an array of top-notch affordable photo printers to choose from. For the best combination of print quality and price, our favorite is the Panasonic TruPhoto. It consistently produced the truest color and sharpest focus of all the printers in the roundup. But if you don't want to hassle with photosensitive paper, consider the Sony DPP-M55 for its excellent picture quality and simple external design. If you want larger photos or the option of printing out your images on postcards or stickers, check out the Fargo FotoFun. Finally, the Fujifilm Print-It NC-2 and the Casio DP-8000 have useful tools, but their mediocre print quality doesn't do the original photos justice. BONNY GEORGIA

DECISION MAKER

WHICH **PHOTO PRINTER** IS FOR YOU?



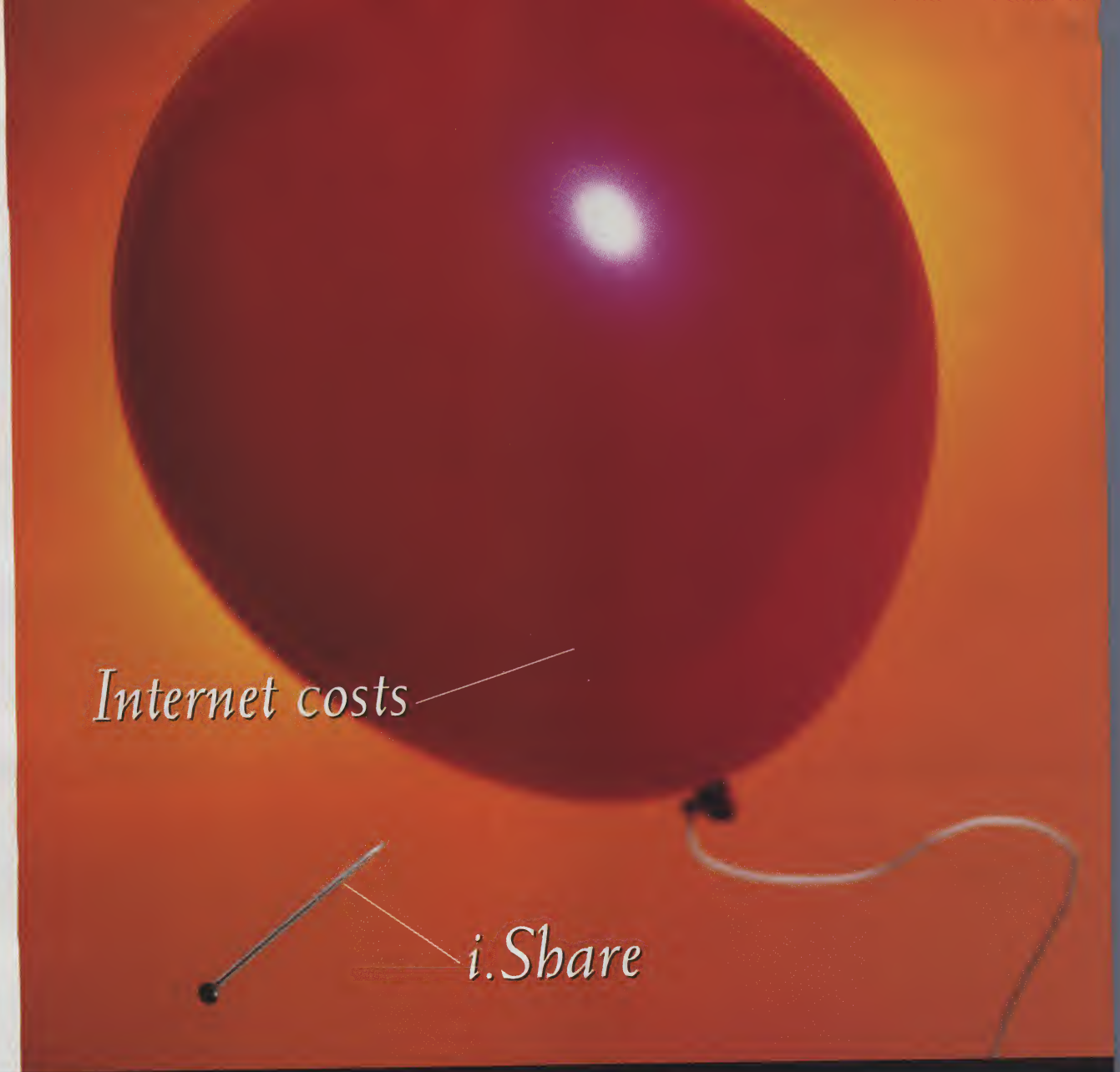
Lab notes

We dug deep into our digital photo archives to evaluate the image quality and usability of the five photorealistic printers. First we tested how easy it was to set up each printer. We connected them to Pentium 133MHz desktop systems, then followed the manufacturer's instructions for installation—which usually meant simply adding a printer in Windows 95.

Once the printer was installed, we judged its size and clarity of controls, and noted if additional connection ports for digital cameras or other input devices were available.

We used both personal and professional images to judge print quality—some produced from digital cameras and others from stock-photo CDs. Testers printed each image at the printer's default settings, then made a second print to test how useful the included software was for editing digital images and improving the final print.

Next testers compared both printouts with the original photos, looking for the printer's ability to retain true color depth, focus, and contrast. The printer's speed and maximum print area were also noted.



Share your Internet connection with i.Share and get everyone online for the price of one.

The thought of having everyone online may be a warm and fuzzy one, but the thought of swelling Internet access costs due to multiple lines and modems is enough to make you cringe.

That's where i.Share™ steps in and bursts that expensive bubble. With i.Share, your networked users (Windows 95, 3.1 or NT, NetWare,* and LANtastic®) can access the Internet *simultaneously* from just one Internet account, one modem, one phone line and one IP address. And with more features than any other product in its class, i.Share helps users save time and boost productivity. It even includes i.Watch security: an ingenious little feature that enables you to control access to specific URLs and keep employees focused on productive web pages only. All this, combined with award-winning technical support and its starting price of only $99, will fill you with amazement. (Hopefully not to the bursting point.)

For more i.Share information or the location of a reseller near you, call **1.800.809.1248.**

starting at $99



Artisoft®

© 1997 Artisoft, Inc. All rights reserved. Artisoft and LANtastic are registered trademarks, and i.Share and i.Watch are trademarks of Artisoft. All other trademarks are property of their registered owners. *NetWare version available July 1997.

Visit us at www.artisoft.com, and try i.Share free for 30 days.

Circle 322 on reader service card.

Ad Index

www.pccomputing.com/rs/ Get free info on these advertisements online at www.pccomputing.com/rs/. . . or circle the corresponding reader service number on the reply card below.

READER SERVICE	ADVERTISER	PAGE NO.
380	01 Communique Laboratory, Inc. www.01com.com	†C6
156	Acer America Corporation, www.acer.com/aac/	222-223
*	Adaptec, www.adaptec.com	45
344	ADI Systems, Inc., www.adiusa.com	100
265	Adobe Systems, www.adobe.com/illustrator/freecd	157
266	Adobe Systems, www.adobe.com	173
264	Adobe System www.adobe.com/Special/pagemill/Smbusiness/	384
316	Adtran, www.adtran.com	389
119	Advanced Logic Research, www.alr.com	155
196	Advanced Logic Research Inc., www.alr.com	320
184	American Power Conversion Corp. www.apcc.com	103-105
185	American Power Conversion Corp. www.apcc.com	231-233
*	Anthro Technology Furniture, www.anthro.com	16
*	Apple Newton, www.newton-inc.com/my-mp	275
322	Artisoft, www.artisoft.com	379
114	AST Research Inc., www.ast.com	163
115	AST Research Inc., www.ast.com	200-201
113	AST Research Inc., www.ast.com	267
164	ATI Technologies, Inc., www.ati.tech.ca	165
285	Avatar Peripherals, www.goavatar.com	279
*	Avery Dennison, www.avery.com	310
212	Barnes and Noble	97
*	Bell Atlantic, www.bellatlantic.com	228
*	Buick, www.regal.com	178-179
261	Caere Corporation, www.caere.com	37
*	Canon Computer Systems, Inc. www.ccsi.canon.com	2-3
303	Cardiff Software, www.cardiffsw.com	324
*	Cheyenne Software, www.cheyenne.com	153
246	Cirque Corporation, www.cirque.com	137
*	Compaq Computer Corporation www.compaq.com	4-5
*	Compaq Computer Corporation www.compaq.com	294-295
*	Compaq DirectPlus, www.compaq.com	270-271
*	Compressent, www.compressent.com/pcc	54-55
193	CompUSA, www.compusa.com	337-341
311	Compuserve, www.compuserve.com	289-291
144	Computer Discount Warehouse www.cdw.com/pcc	248-255
146	Computer Discount Warehouse www.cdw.com/pcc	350-351
110	Creative Labs, www.soundblaster.com	109
111	Creative Labs, www.soundblaster.com	111
112	Creative Labs, www.soundblaster.com	219
336	CyberMax Inc., www.cybermax.com	68-69
177	Cybermedia, www.cybernedia.com	51
178	Cybermedia, www.cybernedia.com	373
157	Dataviz, www.dataviz.com/desktoptogo	261
155	Dataviz, www.dataviz.com	319
333	Dayna Communications www.netcenter1.dayna.com	301
*	Dell Computer Corporation www.dell.com/buydell	188-189
*	Dell Computer Corporation www.dell.com/buydell	246-247
*	Dell Computer Corporation www.dell.com/buydell	C5-C8
*	Dell Factory Outlet, www.dell.com/buydell	345
377	Deneba Systems Inc., www.denaba.com	96
*	Diamond Multimedia, www.diamondmm.com	207
365	Digicom Systems, Inc., www.digicomsys.com	393
*	Digital Equipment Corporation www.alphapowered.com	282-283
*	Divion Technology www.convergencepoint.com/droct5	344
292	Dr. Solomon's Anti-Virus Software www.drsolomon.com	139
201	E*TRADE Securities, Inc., www.etrade.com	90
*	EIZO Nanao Technologies, Inc., www.eizo.com	303
375	Enorex Microsystems, www.enorex.com	67
288	Epson America Inc., www.epson.com	14-15
290	Etak Inc., www.etak.com/SkyMap	292-293
161	Executive Software, www.execsoft.com	317
188	First Union , www.firstunion.com	376
259	Fujitsu Computer Products of America www.fcpa.com	224-225
158	Fujitsu PC Corp., www.fujitsu-pc.corp.com	34-35
*	Gateway 2000, www.gateway.com	17-32
*	Gateway 2000, www.gateway.com	141-148
379	Helix Software Co, www.helixsoftware.com	332-333
*	Hewlett Packard, www.hp.com	169
*	Hewlett Packard, www.hp.com/go/vectra	171
*	Hewlett Packard (Peripherals) www.hp.com/go/photosmart	158-159
*	Hewlett Packard Supplies www.hp.com/go/ljsupplies	40
*	Hewlett Packard Supplies www.hp.com/go/ljsupplies	42-43
138	Hitachi/NSA, www.nsa-hitachi.com	321
345	Hughes Network Systems, www.direcduo.com	65
*	IBM Corporate Channel	177
*	IBM Networking Software www.software.ibm.com/access	227
*	IBM PC Company, www.pc.ibm.com/multimedia	236-237
*	IBM SMB, www.businesscenter.ibm.com	174-175
240	In Focus Systems, Inc., www.infocus.com/pcc	326
390	Inso Corporation, www.inso.com	240
*	Intel Corporation, www.intel.com	75
*	International Correspondence Schools	344
159	ITAC Systems, www.mousetrak.com	44
294	JavaSoft, www.javasoft.com	46-47
127	Kyocera Electronics, Inc., www.kyocera.com	244
*	LA Trade, www.4latrade.com	336
217	Lightware, www.lightware.com	276
262	Macromedia, www.special.macromedia.com/fh	243
263	Macromedia, www.special.macromedia.com/d6	334
154	Matrox Electronics, www.matrox.com/mga	119
230	MGI Software Corporation, www.mgisoft.com	329
151	Micro Solutions, www.micro-solutions.com	262
137	Micro X, www.microx.com	304-305
*	Micron Electronics, www.micronpc.com	77-86
104	Micron Electronics, www.micronpc.com	92
*	MicroniX USA Inc, www.micronixusa.com	94-95
*	Microsoft Corp., www.microsoft.com/office	C2-C4, 1
*	Microsoft Corp. www.microsoft.com/money/trymoney	38-39
*	Microsoft Corp., www.microsoft.com/office/	†C2-C4
*	Microsoft Corp., www.microsoft.com/office/	†A1
*	Microsoft Press, www.mspress.microsoft.com	†A6-A7
*	Microtek Lab Inc., www.microtekusa.com	88
245	MicroTouch, www.MicroTouch.com/ibid	33
361	Microwarehouse, www.warehouse.com	342-343
*	Mita Copy Star America, www.mita.com	306
318	Mitsubishi Electronics America www.mitsubishi-display.com	316
*	Mylex Corporation, www.mylex.com	13
221	NEC Computer Systems, Inc., www.necnow.com	8-9
239	NEC Computer Systems, Inc., www.necnow.com	58-61
219	NEC Computer Systems, Inc., www.necnow.com	113-116
236	NEC Technologies, Inc., www.nec.com	10-11
129	NewSoft, Inc. , www.newsoftinc.com	327
*	NRI Schools , www.mhcec.com	347-349
231	Number Nine Visual Technology, www.nine.com	287
*	Panasonic, www.panasonic.com	131
280	Para Systems, Inc., www.minuteman-ups.com	391
179	PC America, www.pcamerica.com	375
193	PCs Compleat, www.compusa.com	337-341
*	Philips Business Electronics www.monitors.be.philips.com	268
*	Philips Electronics	87
348	Pinnacle Systems, www.videodirector.com	208
*	Pitney Bowes	315
238	Play Inc., www.play.com	151
*	PointCast, www.pointcast.com	239
371	Polycom, www.polycom.com	296
308	PowerQuest Corporation, www.powerquest.com	234
309	PowerQuest Corporation, www.powerquest.com	314
214	Primavera, www.primavera.com	63
274	ProCD, www.procd.com	213
350	Proxima, www.proxima.com	312
190	Qualcomm, www.eudora.com/3PCC	56
*	Quantex Micro Systems, www.quantex.com	193-198
354	Quarterdeck Office Systems www.quarterdeck.com	133
355	Quarterdeck Office Systems www.quarterdeck.com	135
255	Rand McNally, www.randmcnally.com	191
121	S.A.G. Electronics, www.sagelec.com	166-167
328	Sceptre Technologies, www.sceptretech.com	308-309
367	Seanix, Inc., www.seanix.com	280-281
330	Sejin America, www.sejin.com	313
276	Shinho Electronic Communication www.shinhousa.com	284
*	Sony Corporation of America, www.sony.com/pc	52-53
*	Sony Electronics Inc, www.sony.com/professional	128
363	STB Systems, Inc., www.stb.com	73
206	Syncronys Softcorp, www.syncronys.com	220
314	Sys Technology, www.systechnology.com	323
223	TeleVideo, Inc., www.televideoinc.com	331
250	TigerSoftware, www.tigerdirect.com	394
250	TigerSoftware, www.tigerdirect.com	396-397
218	Toshiba America Information Systems Inc. computers.toshiba.com	161
215	Toshiba American Electronic Corporation www.toshiba.com/taec	71
234	Traveling Software Inc., www.laplink.com/pcc	325
*	U.S. Robotics, Inc., www.x2.usr.com/connectnow	121-124
340	Unicent, www.unicent.com	181-185
106	ViaGrafix Corporation, www.viagrafix.com	322
171	ViewSonic, www.viewsonic.com	214
299	VisionTek, www.visiontek.com	107
203	Wacom Technology, www.wacom.com	127
*	Waterhouse Securities, Inc. www.waterhouse.com	199
107	Xerox/Desktop Document Systems www.xerox.com/products.html	186-187

100% Pure Java

*	A-Frame Software Company, www.A-Frame.com	352
*	bidnask.com, www.bidnask.com	352
*	Cloudscape, Inc., www.cloudscape.com	352
*	Concurrent CAE Solutions, www.ccaes.com	352
*	InterSoft Argentina S.A., www.inter-soft.com	352
*	ISC Consultants, Inc., www.isc.com	352
*	KeyLabs Inc., www.keylabs.com	352
*	NetFactory, Inc., www.netcharts.com	352
*	Paralogic Coporation, www.paralogic.com	352
*	ProtoView Development, www.protoview.com/java	352
*	Recital Corp., www.recital.com	352
*	WebMan Technologies, Inc., www.timecruiser.com	352
*	WiGiTek Corporation, www.wigitek.com	352
*	Wyatt River Software, www.wyattriver.com	352

FYI

Direct to You Section	335-351
PC Computing Marketplace	353-371
Windows 95 Buyers Section	307-334

* Reader Service Number Omitted At Vendor's Request
† Denotes Special **Office Computing** supplement

PC Computing FREE PRODUCT INFORMATION

Circle the numbers below corresponding to products featured in this issue's advertisements and listed in the Editorial Product Index. Manufacturers will mail product literature to you free of charge.

Void after January 31, 1998

PRODUCTS FEATURED IN ADVERTISEMENTS

101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460
461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500
501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520
521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540
541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560
561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580
581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600

PRODUCTS FEATURED IN EDITORIAL

601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617			
618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634			
635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651			
652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668			
669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685			
686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702			
703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719			
720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736			
737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753			
754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770			
771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787			
788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804			
805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821			
822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838			
839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855			
856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872			
873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889			
890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906			
907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923			
924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940			
941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957			
958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974			
975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991			
992	993	994	995	996	997	998	999												

Please answer questions below:

1. Where do you use your computer? (Check one only):
1. ☐ Home 2. ☐ Business 3. ☐ Both

2. What kinds of computers do you use? (Check all that apply):
1. ☐ IBM/Compatible Laptop 2. ☐ IBM/Compatible Desktop 3. ☐ MAC

3. Do you plan to buy any of the hardware or software mentioned below in the next three months? (Check all that apply):

HARDWARE
1. ☐ PC
2. ☐ MAC
3. ☐ Laptop
4. ☐ Printer
5. ☐ Monitor
6. ☐ Disk/Tape Back-up
7. ☐ Add-in Board
8. ☐ Modem
9. ☐ Input Device
10. ☐ Local Area Network
11. ☐ UPS

SOFTWARE
12. ☐ Accounting
13. ☐ Spreadsheet
14. ☐ Personal Finance
15. ☐ Desktop Publishing
16. ☐ Word Processor
17. ☐ Database Manager
18. ☐ Graphics
19. ☐ Utility
20. ☐ Communications
21. ☐ Windows 95
22. ☐ Programming Language/ Compiler
23. ☐ Integrated/Multifunction
24. ☐ CAD
25. ☐ CD-ROM
26. ☐ On-Line Services

4. From which of the following sources do you purchase personal computer products? (Check all that apply):
1. ☐ Specialty Computer Retail Stores
2. ☐ Mail Order Firms
3. ☐ Direct from Manufacturers
4. ☐ Other

PLEASE PRINT CLEARLY

PCC 10/97-4

Name

Title | Telephone

Company Name

Address

City | State | Zip

6. ☐ Please send me a one-year (12-issue) subscription to PC Computing for $16.97 (U.S. price); all other countries add $16.00 for additional postage.

Free Product *Information*

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST-CLASS MAIL PERMIT NO. 433 RIVERTON, NJ

POSTAGE WILL BE PAID BY ADDRESSEE

PC Computing®
PO BOX 11806
RIVERTON, NJ 08076-9406

Edit Index

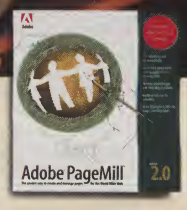
www.pccomputing.com/rs/ Get free info on products featured in this issue online at www.pccomputing.com/rs/ . . . or circle the corresponding reader service number on the reply card below.

	PAGE	READER SERVICE
HARDWARE		
COMMUNICATION HARDWARE		
33.6, Viking Components	285	743
33.6 PCMCIA Data/Fax/Voice, IBM	285	747
56K Communicator, Simple Technology	285	736
CardBus Ethernet 10/100, Xircom	285	754
CompuNet 2000, Integrated Technology	160	660
CreditCard Ethernet 10/100+ Modem 56, Xircom	285	758
CreditCard Ethernet 10/100 Ready, Xircom	285	755
CyberExpress 5600, TDK Systems	285	742
DataFire Go Series PC Card, Digi	285	760
EigerCom 56K, Eiger Labs	285	745
EigerNet, Eiger Labs	285	757
EtherLink III Lan+33.6 Modem, 3Com	285	759
EtherPower 10/100 CardBus, SMC	285	752
Fast Etherlink XL, 3Com	285	750
Five of Hearts, Ositech	285	740
Megahertz 128K ISDN PC Card, 3Com	285	737
Megahertz XJ1560, 3Com	285	738
MobileAccess 120, Mitsubishi Wireless	126	635
MultiMobile MT5600ZLX, Multi-Tech	285	748
MVP34PC, Cardinal Technologies	285	744
Netelligent 10/100, Compaq	285	756
Network Flyer 100, TDK Systems	285	753
Optima 33.6 PCMCIA, Hayes	285	746
PCMCIA 336 with EZPort, Practical Peripherals	285	741
SoundPoint PC, Polycom	126	634
Supra PC Card, Diamond Multimedia	285	739
Trumpcard Seven of Diamonds, Ositech	285	751
WaveRunner, IBM	285	749
WorldTalk Internet Phone, InterAct	160	661
Yo Yo Telephone Manager, Big Island	372	787
DESKTOP SYSTEMS		
Dimension XPS D266, Dell	102	619
G6-266M, Gateway 2000	110	624
G6-300XL, *Gateway 2000*	102	620
Titana II, Unicent Technologies	110	625
MISCELLANEOUS PERIPHERALS		
DJ-1000, Mitsubishi	108	623
Monster Sound, Diamond Multimedia	120	630
MouseMan for Notebooks, Logitech	372	789
PaperPort Strobe, Visioneer	112	626
PC/TV AirLink, Aitech Int'l	372	788
PDR-2, Toshiba America	108	622
SimpleStation, Simple Technology	372	792
SuperDisk Drive, Imation Corp.	106	621
ViewStation AS6E, Artec	48	603
Zip Unleashed, Iomega	372	791
MONITORS		
Cornerstone Color 45/101sf, Cornerstone Imaging	125	633
Sampo AlphaScan 810, *Sampo Technology*	117	627
SuperScan Elite, Hitachi/NSA	117	628
NETWORK HARDWARE		
Instant Internet, Bay Networks	297	765
InterJet 100, Whistle Communications	297	763
InterNet-Link, Illimite	297	769
IPS-168, i-Planet	297	766
Team Internet, Apexx Technology	297	764
WebRamp IPX, Ramp Networks	297	768
PORTABLE SYSTEMS		
AcerNote Light 383, Acer America	256	710
Armada 1520DM, Compaq	256	712
Armada 7750MT, Compaq	256	691
Brillianta ND-5127A, All Computer Technology	256	698
CF-35, Panasonic Personal Computer	256	729
Ergo CD-Power Brick 3, Brick Computer	256	700
Ergo ThinBrick 166, Brick Computer	256	711
EzBook 750MT, CTX Int'l	256	719
HiNote VP 560, Digital	256	720
HiNote VP 575, Digital	256	693
HP OmniBook 800 CT, Hewlett-Packard	256	*
HP OmniBook 2000 CT, Hewlett-Packard	256	*
HP OmniBook 5700 CTX, Hewlett-Packard	256	*
Hyperbook, Xenocom	256	704
Latitude XPi CD M166ST, Dell	256	692
LifeBook 531T, Fujitsu PC	256	723
LifeBook 635T, Fujitsu PC	256	728
LifeBook 655TX, Fujitsu PC	256	701
MX Edge, Micro X	256	708
MX Entre, Micro X	256	724
NP1266, Micro Express	256	721
NP7200MMX, Micro Express	256	703
OpenNote, Kiwi Computer	256	714
PalmPilot Professional, 3Com	256	732
Portégé 300CT, Toshiba America	256	730
Satellite 220CDS, Toshiba America	256	717
Soundx 4200, Sceptre Technologies	256	716
Soundx 4500, Sceptre Technologies	256	705
Tecra 740CDT, Toshiba America	256	696
ThinkPad 380D, IBM	256	713
ThinkPad 560E, IBM	256	727
ThinkPad 765D, IBM	256	694
ThinkPad 770, IBM	101	618
Tiger GT 6x86-166, Tiger Direct	256	726
Tiger GT Pentium 166MMX, Tiger Direct	256	706
TNB-5500, Tatung America	256	725
TransPort VKLX, Micron	256	709
TransPort XKE, Micron	256	695
TravelPro 187CT, AMS Tech	256	718
TravelPro 2010CX, AMS Tech	256	699
Velo 1, Philips Electronics	256	731
Versa 2730M, NEC Computer Systems	256	715
Versa 6060, NEC Computer Systems	256	690
VisionBook Pro, Hitachi PC	256	702
WinBook FX, WinBook Corp.	256	697
WinBook XP5, WinBook Corp.	256	722
YesBook 753 Plus, Maxtech Corp.	256	707
Zaurus ZR-3500X, Sharp	256	733
PRINTERS		
BJC-7000, Canon	118	629
Digital Color Printer DPP-M55, Sony	374	796
DP-8000 Larger Format Printer, Casio	377	798
FotoFun Digital Printer, Fargo	377	797
Print-It NC-2, Fujifilm	374	795
TruPhoto Digital Photo Printer, Panasonic Interactive Media	374	794
VIDEO HARDWARE		
MP-EG1A, Hitachi Home Electronics	120	631
Optura, Canon	49	605
Rainbow Runner Studio, Matrox	125	632
VideumCam Traveler, Winnov	372	790
SOFTWARE		
GRAPHICS SOFTWARE		
Kai's Photo Soap, MetaCreations	138	647
Painter 5, MetaCreations	130	640
Windows Draw 6, Micrografx	48	604
NETWORK SOFTWARE		
IWare Connect 3.0, Quarterdeck	297	767
Presto PageManager, NewSoft	372	786
SmartLobby, Seiko Instruments USA	132	641
PERSONAL PRODUCTIVITY SOFTWARE		
AVB Advantage, Advantageware	136	645
Quicken Family Lawyer, Parsons	311	771
United Connection, United Airlines	48	602
VBAssist, Sheridan Software Systems	136	646
REFERENCE & ENTERTAINMENT CDs		
3-D Ultra Mini Golf, Sierra On-Line	192	681
Backyard Baseball, Humongous Entertainment	190	677
British Open Championship Golf, Looking Glass Technologies	192	679
LinksLS 1998, Access Software	190	678
Microsoft Soccer, Microsoft	192	683
NBA Full Court Press, Microsoft	192	682
Outlaws, LucasArts Entertainment	318	774
SimGolf, Maxis	192	680
Triple Play 98, Electronic Arts	190	676
You Don't Know Jack Sports, Berkeley Systems	192	684
TOOLS & UTILITIES		
AntiVirus 2.5.2, IBM	138	648
Easy CD Creator Deluxe, Adaptec	140	649
LapLink, Traveling Software	330	780
Post-It Software Notes, 3M Corp.	311	772
Type Manager Deluxe, Adobe	330	781
WEB BROWSERS & UTILITIES		
Easy Translator, Transparent Language	170	667
Excite PAL, Excite	179	674
Managed Webcasting, Microsoft	149	652
Netcaster, Netscape	149	653
NetJumper, NetJumper	172	668
PGP for Personal Privacy, Pretty Good Privacy	172	669
Web Buddy, DataViz	178	673
WEB COMMUNICATIONS		
ActivePresenter, Software Publishing Corp.	177	672
Posta, Tumbleweed Software	176	670
Pronto97, CommTouch Software	180	675
V-Active, Ephyx Technologies	140	650
WEB DEVELOPMENT TOOLS		
Application Foundation Classes, Microsoft	168	665
HTML PowerTools, Opposite Software	176	671
Internet MallManager, Outreach	156	659
Intershop Online, Intershop	156	658
i.Share, Artisoft	152	654
Net.Medic, VitalSigns Software	170	666
ObjectShare Parts, ObjectShare	168	664
OmniForm Internet Publisher, Caere	154	656
Site Server, Microsoft	162	662
TeleForm Internet Solution, Cardiff	154	657
ThingMaker, Parable	164	663
WebCast, Astound	318	773
WebEtc, Microtest	152	655
Web Integrity, Mortice Kern Systems	48	601
WebRecord, Canon Computer Systems	324	779
WEB SEARCH ENGINES & SERVICES		
Accutrade	99	616
Atrieva, Atrieva Corp.	134	642
BackupNet, Hot Wire Data Security	134	643
BankNow Internet Edition, Intuit	129	638
DLJ Direct	99	615
E*Trade	99	617
QuickBackup, McAfee Associates	134	644
Security First Network Bank	129	639

*READER SERVICE NUMBER OMITTED AT VENDOR'S REQUEST.



"I never dreamed taking my business worldwide could happen so quickly."



Two weeks ago, I heard of Adobe PageMill. Today, the whole world has heard about me.

Let the whole world hear about your business, too. It's easy to build your business on-line with Adobe® PageMill™ software. Just drag and drop text and images into place, and watch your Web pages take shape before your eyes. You don't have to know HTML to get that professional look. And for a limited time, Adobe PageMill also comes with Adobe Photoshop® LE – plus Bonus Web Content with more than 1,000 ready-to-use images, sounds, animations, and more. All for just $99 – Windows® or Macintosh. Don't wait another minute to start building your business on the Web. Call us at 1-800-411-8657, extension 32800 or visit our Website at www.adobe.com/special/pagemill/smbusiness/

Adobe

If you can *dream* it, you can *do* it.®

Adobe PageMill *The fastest, easiest way to get your* business *on the* Web.

©1997 Adobe Systems Incorporated. Adobe, the Adobe logo, PageMill, the PageMill logo, Photoshop, and "If you can dream it, you can do it" are trademarks of Adobe Systems Incorporated. Windows is either a trademark or a registered trademark of Microsoft Corporation. Macintosh is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

Inter.net

PC Computing's Guide to the Best Of the Net

BY RICH SCHWERIN

INTERNET2

High **Velocity**

If you think Internet access for your home or business is slow, imagine how the folks in the ivory tower feel. Thirty years ago, government defense funding helped launch a computer network for academic and scientific research. Today, students, professors, and scientists bemoan the flood of noisy newbies and commercial interests on "their" network. The answer? A $600 million government-funded Next Generation Internet project to build Internet2—a national, super–high-speed network exclusively for academic research.

With Internet2, more than 100 major universities hope to bypass commercial gridlock on the public Net and enjoy a massive, private extranet that'll be 100 to 1,000 times faster than the network we use today. It's just this sort of network, proponents argue, that university scholars need to complete their work without the overhead of commercial interests. Not so fast, counter businesses, we're talking about tax dollars here.

In an era of tight budgets and fat deficits, why shouldn't everyone have access to this new, high-speed Internet? Why indeed. Private industry, especially the high-tech sector, has the competitiveness and—more important—the capital to build a better, faster Internet, and is more equipped to merge everyone into the fast lane. Make that the *very* fast lane, with a 155Mbps backbone designed by the National Science Foundation and a matrix of nationwide, high-speed switching upgrades. And while the academics might not want commercial interests to join their "country club" at first, with hundreds of millions of dollars at stake it's more a question of when than if.



Life in the Fast Lane: With government funding, universities are building Internet2, a private research network 100 to 1,000 times faster than today's Internet. Will you be left behind?

In the long run we'll most likely see two Internets—one public and one private. The public Net will be adequate, cheap, and ubiquitous, but relatively sluggish and unreliable. The private Net will offer superfast, reliable, and secure service—but at a premium price.

1,001 Top Free Downloads: October Update

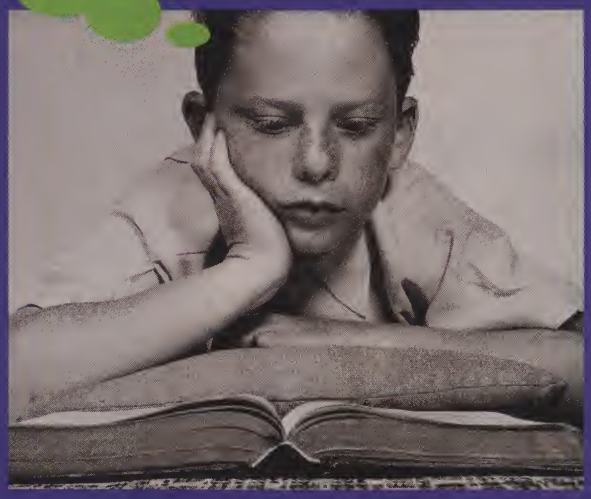
Visit www.pccomputing.com for links to all of *PC Computing*'s 1,001 downloads.

Name	Filename/Size/Time*	The Buzz
Henning Stick Up Notes	STICK32.ZIP/1MB/8 minutes	**Take good notes with this nifty, 32-bit pop-up notepad.**
HyperTerminal Private Edition	HTPE3.EXE/516K/5 minutes	**Unimodem support makes this modem utility the only one you need.**
IBM BeanBag	BEANBAG.CLASS/180K/1 minute	**Java-minded programmers should drink up IBM's BeanBag.**
KnoWare Internet Neighborhood	IN32.ZIP/1,100K/5 minutes	**Need an FTP shell extension for your Windows 95 desktop?**
Mach5 Software Kremlin	KREM106.ZIP/902K/5 minutes	**Why invite snoops to spy on your files? Keep them in the Kremlin.**
MoneyTree Software QuizPlease	*SETUPQP.EXE/4.1MB/45 minutes*	**Create interactive, multimedia-rich tests and surveys.**
PY Software Any Speed	ANYSPD11.ZIP/579K/3 minutes	**How fast is your ISP? Grab this speed utility.**
SiteShare 1.0	STSH32C1.EXE/780K/6 minutes	**Access your bookmarks directly from your desktop with ease.**

*ESTIMATED DOWNLOAD TIMES ARE CITED AT 28.8KBPS; ACTUAL TIMES VARY.

PHOTO ©BETTMAN ARCHIVE. PHOTO ILLUSTRATION BY PETER ALAN GOULD.

Cogito ergo sum...



LEARN A LANGUAGE YOU MIGHT ACTUALLY USE SOMEDAY.

A sample of the courses offered online at ZDU:

Photoshop
C++
Visual Basic
HTML
Java Applets
Java
Windows NT
VRML
Excel
Web Design
Delphi
Et cetera

That Latin you learned in high school probably isn't going to impress your boss. But knowing C++, Java or HTML just might. A good reason to check out ZDNet University, the place to take online classes in a range of computer-related subjects, from programming to web design to applications. ZDU is a great way to polish your skills or get ahead in your job. And best of all, you won't need a student loan—$4.95 a month gets you unlimited course enrollment. Visit our online campus at www.zdu.com and start learning now. In other words, *carpe diem*.

Unlimited Course Enrollment: only **$4.95** a month

ZDNet™ University

THE MOST TRUSTED COMPUTER LEARNING SITE ONLINE

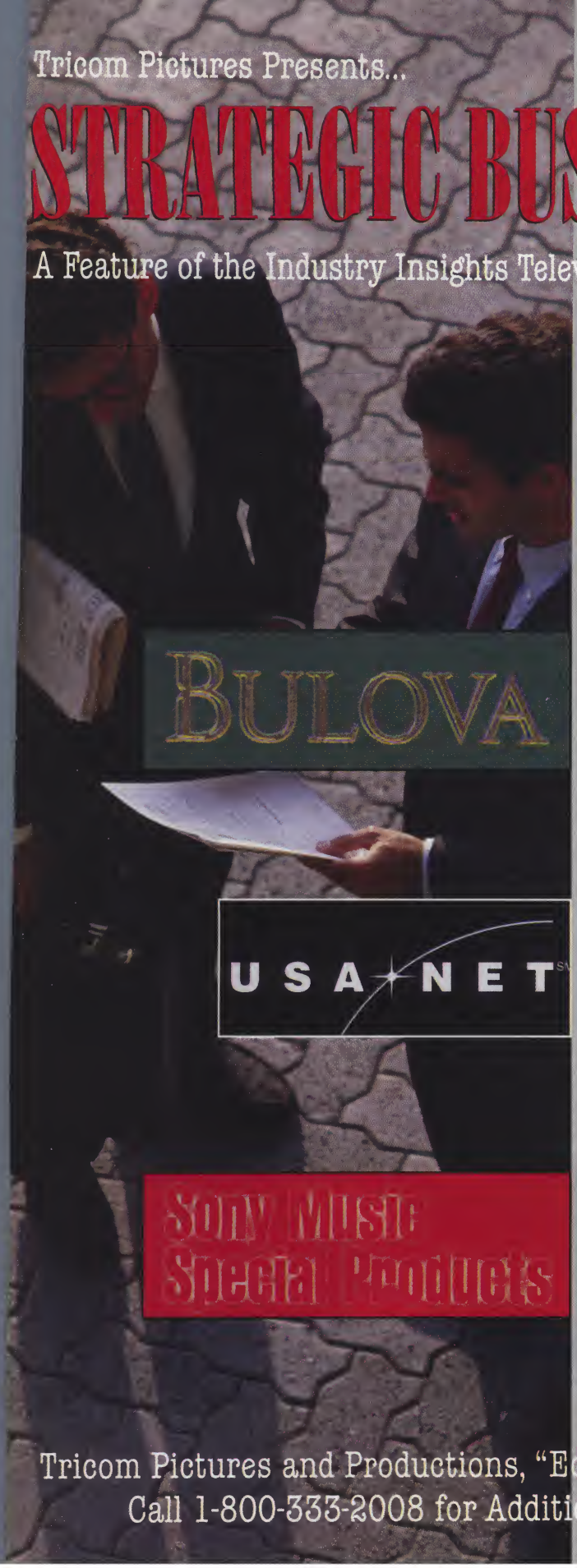
Log on and learn: www.zdu.com

ZDNet and ZDNet University are registered trademarks of Ziff-Davis. All other trademarks are the property of their respective holders.

Tricom Pictures Presents...

STRATEGIC BUSINESS REPORT

A Feature of the Industry Insights Television Series



Tune in to the next edition of
STRATEGIC BUSINESS REPORT and discover
new and exciting corporate incentive programs
as well as useful info on the advances in e-mail.
Check your local listings for dates and times.

Large and small companies realize that motivating and rewarding their employees is important to success. Discover how the Award Collection from Bulova, creator of fine watches and clocks, offers companies high-quality motivational pieces that get results. For info call, 1-800-423-3553. In New York City call, 1-718-204-4600.

Learn how NetAddress℠ from USA.NET is making e-mail easier and more permanent than ever before. We'll see how NetAddress℠ ensures that you'll never again change your e-mail address – even if you move, change jobs or switch internet providers. For information, call USA.NET at 1-800-592-1240 or visit us at netaddress.usa.net.

On our next episode see how creative incentive programs can be a hit for your company, especially when SONY MUSIC is supplying the hits! Explore the flexibility of entertainment promotions from the experts who know how to make music work. For information before the show, call 1-800-883-6302.

Tricom Pictures and Productions, "Educating and Entertaining the World."
Call 1-800-333-2008 for Additional Programming Information..

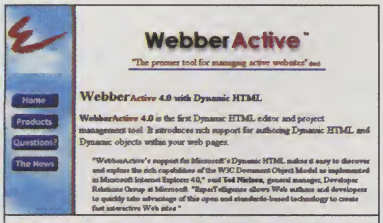
World Wide **Publishing**

BY RICH SCHWERIN

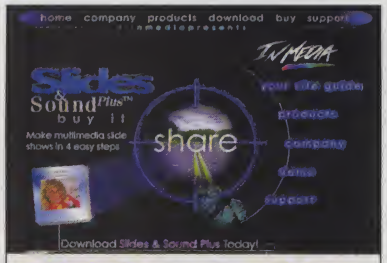
Want to spread your message to the masses? No other medium matches the low cost and wide reach of the Web. From building your very first home page to running your own business commerce site, we've selected the best bets for publishing, promoting, managing, and hosting Web content. Not enough? Get all this and even more from www.pccomputing.com.



Brooklyn North Software Works HTML Assistant Pro 97: Tag professional-grade Web sites.



ExperTelligence WebberActive 4.0: Quickly construct Dynamic HTML and Content Definition Format files.



InMedia Presentations Slides & Sound Plus: Spice up static Web sites with multimedia slide shows.

PRODUCT	Verdict
Adobe Press Adobe PageMill 2.0 Classroom in a Book $40 est. street price (800) 428-5331 *Reader Service No. 791*	★★★★★ Before you create your first Web page with Adobe PageMill, go back to school with Adobe Press's $40 Adobe PageMill 2.0 Classroom in a Book. As part of Adobe's popular Classroom in a Book series, this 195-page title includes a CD-ROM with PageMill 2.0 and easy-to-follow lessons on publishing tricks of the pros.
Best Internet Web Hosting Service $30 initial fee; $30 per month (800) 764-2378 *Reader Service No. 792*	★★★★ Need a home for your Web site? The Best Internet Web Hosting Service includes site hosting and round-the-clock maintenance on Windows NT–based servers as well as a private domain name that's backed by a T3 infrastructure. For an initial $30 fee and just $30 a month, Best hosts up to 25MB and allows up to 50,000 daily page hits.
Brooklyn North Software Works HTML Assistant Pro 97 $99 est. street price (800) 349-1422 *Reader Service No. 793*	★★★★ From the pioneer of Web page editing tools comes HTML Assistant Pro 97, a $99 professional-strength authoring product. Tag to your heart's content with support for Dynamic Data Exchange, long filenames, colored tags, and easy image mapping. Use HTML Assistant Pro to add Java, frames, tables, forms, and slick fonts to your site.
ExperTelligence WebberActive 4.0 $149 est. street price (805) 962-2558 *Reader Service No. 794*	★★★★ Can't wait for the standards groups to approve Dynamic HTML (DHTML) and Content Definition Format (CDF)? Then don't. For $149, WebberActive 4.0 is a top-notch DHTML and CDF editing tool. WebberActive includes built-in Microsoft Internet Explorer preview technology and offers extensive support for ActiveX controls.
IBM alphaWorks BeanBag Free (914) 945-3738 *Reader Service No. 795*	★★★★ Developers: Control, package, and manage your applications with IBM alphaWorks' Java-based BeanBag. Available free of charge, BeanBag lets you build automatic or custom installation for single files or file sets, create directories, and more.
InMedia Presentations Slides & Sound Plus $69 est. street price (888) 575-4337 *Reader Service No. 796*	★★★★ Add entertaining multimedia slide shows to your otherwise dull Web site with InMedia Presentations' Slides & Sounds Plus. For $69, this program lets you combine images from your scanner or digital camera with full-motion video, text, voice-overs, music, and dozens of cool special effects—and it's optimized for MMX.
Macromedia Flash 2 $199 est. street price (800) 457-1774 *Reader Service No. 797*	★★★★ One of the fastest and easiest ways to create Web multimedia and animation also offers sound support. Macromedia's $199 Flash 2 includes vector-based technology and lets you build interactive buttons, cartoons, drawings, and other animations.
MarketScape WebCD Pro Publishing Solution Starts at $2,995 direct price (888) 469-3223 *Reader Service No. 798*	★★★★ Expand your Web site's reach with MarketScape's new $2,995 WebCD Pro Publishing Solution. WebCD Pro lets you integrate and deliver Web content via a Net-connected CD-ROM. These live, Web-CD-ROM hybrids save on bandwidth and keep content up-to-the-moment fresh by adding Web access from the CD.

★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

ADTRAN ISDN MODEMS HAVE PATENT-PENDING ALGORITHMS THAT AUTOMATICALLY DETECT TELCO PARAMETERS SUCH AS SWITCH TYPE AND SERVICE PROFILE IDENTIFIERS TO ENSURE CORRECT IMPLEMENTATION AND PRECLUDE THE PROPENSITY FOR ERRONEOUS INPUT.

TRANSLATION:

IT'S DORK-PROOF.





You know how Murphy says, "If something can go wrong, it will." Well, that's one law ADTRAN's Express XR™ and Express XRT™ ISDN modems don't obey.

Because they're built to keep things going right. Start with Expert ISDN™ – a patent-pending feature that got its name because it expertly configures your system with the necessary phone company information. Just enter your ISDN phone numbers and the rest is automatic. Saving you from general input-error dorkiness (a.k.a. human nature).

Plus, there are other exclusive features like:

-The Express Configuration Wizard™ that makes setup a stroll in the park.

-A modem port that lets you use analog over your clean ISDN line.

-Two ports on the XRT for your phone, analog modem or fax.

-Not to mention compression that lets you tear along at a time-warping 230,400 bps.

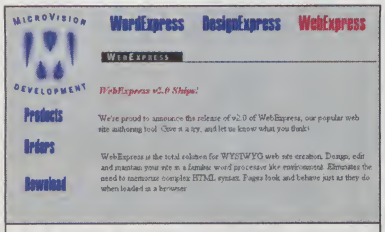
So if you're ready for ISDN the easy way, do the least dorky thing possible. Call us toll-free at 1-888-2-ADTRAN or visit us at http://www.adtran.com.

ADTRAN

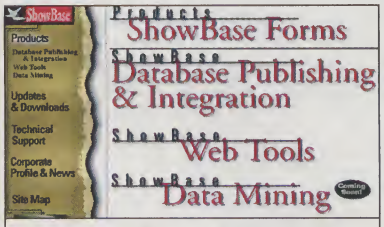
We Turn The Fast Lane Into Easy Street.

Express XR, Express XRT, Expert ISDN, Express Configuration Wizard and the ADTRAN Logo are trademarks of ADTRAN, Inc. All other brand or product names are trademarks and/or registered trademarks of their respective companies. © 1997 ADTRAN, Inc., 901 Explorer Boulevard, Huntsville, Alabama 35814-4000

Circle 316 on reader service card.



MicroVision Development WebExpress 2.0: Create your Java-enabled Web site, then manage it.



ShowBase Forms: Automatically generate Web-based forms without the CGI scripting headaches.



Totally Hip Software WebPainter 2.0: Get animated with this easy-to-use, $70 cel-based painting tool.



Viaweb Store: Point your browser to www.viaweb.com and open your own mini-mall on the Net for as little as $100.

PRODUCT	Verdict
MicroVision Development WebExpress 2.0 $69 est. street price (800) 998-4555 *Reader Service No. 799*	★★★★ Create and manage your Java-enhanced Web site with MicroVision Development WebExpress 2.0. This $69 program boasts sitewide, hierarchical, visual management tools, including link validation. On top of all that, you can create image maps, frames, and forms.
ShowBase Forms $249 est. street price (819) 685-2273 *Reader Service No. 800*	★★★★ Web-based forms are great for end users but a real pain in the neck for developers. Unless, of course, the developer is using ShowBase's $249 ShowBase Forms. This handy development utility automatically spits out CGI scripts for user input.
Totally Hip Software WebPainter 2.0 $70 est. street price (888) 843-3447 *Reader Service No. 801*	★★★★ You're certainly not an artist. And cartoon animation is far from your specialty. But you don't have to worry with Totally Hip Software's $70 WebPainter 2.0, an easy-to-use cel-based painting and animation tool. WebPainter is great for creating cool animations from scratch and for editing graphics.
Ulead Systems PhotoImpact with WebExtensions $99 est. street price (800) 858-5323 *Reader Service No. 802*	★★★★ With a useful blend of Web and Microsoft Office features, Ulead Systems' $99 PhotoImpact with WebExtensions gets high marks as an everything-but-the-kitchen-sink imaging suite. Designed for Windows 95 and Windows NT, PhotoImpact is great for incorporating images, logos, and graphics into reports, presentations, and Web pages.
Viaweb Store Starts at $100 per month direct price (888) 484-2932 *Reader Service No. 803*	★★★★ Interested in online commerce? Sell your widgets on the Web with Viaweb Store. Starting at just $100 a month for up to 20 items, Viaweb will host, manage, and maintain your ministore. And store construction is simple: Just surf to www.viaweb.com.
Allaire HomeSite 2.5 $79 est. street price (888) 939-2545 *Reader Service No. 804*	★★★ From the makers of Cold Fusion comes HomeSite 2.5, a $79 Web page editing and management suite that includes code wizards and application-development tools for building sites. HomeSite even lets you create and edit client-side JavaScript.
ParaGraph Int'l Internet3D Space Builder 2.1 $90 est. street price (800) 810-0055 *Reader Service No. 806*	★★★ If you have an MMX processor and want to build 3-D VRML worlds for your Web site, choose one of the first MMX-enabled VRML creation tools: ParaGraph International's (a division of Silicon Graphics) $90 Internet3D Space Builder 2.1. Remember: VRML worlds look cool but are bandwidth-intensive.
PictureWorks Technology Spin Panorama $80 est. street price (800) 303-5400 *Reader Service No. 805*	★★★ Attract more visitors by adding stunning, 360-degree panoramic images to your site. Think that would be too expensive or too difficult? Not with PictureWorks Technology's $80 Spin Panorama. Creating panoramic images and Apple QuickTime VR movies for your Web site is a snap.
PowerSolutions for Business SitePromoter 2.0 $129 est. street price (800) 955-3337 *Reader Service No. 807*	★★★ What if you posted an awesome Web site and nobody visited? Try SitePromoter 2.0. For $129, SitePromoter helps you register with more than 150 major search engines, directories, and indices. And since each of these services has slightly different requirements, SitePromoter walks you through the necessary submission data.
Sausage Software Clickette $25 est. street price www.sausage.com *Reader Service No. 808*	★★★ For $25 Clickette lets you create beautiful 3-D buttons onto which you can easily map multiple URL links. Create a graphic from scratch, import an existing image, define your buttons as up or down, then just edit the URLs. Each button supports up to 50 hyperlinks.
ThemeWare Internet Tool Box $99 est. street price (800) 545-7646 *Reader Service No. 809*	★★★ Newbies: ThemeWare's Internet Tool Box shovels a lot of goodies into a $99 suite, including service offers from EarthLink Network and MSN, a trial copy of Claris Home Page, and useful tutorials. All told, you get nearly $500 worth of Internet tools.

★★★★★ *Excellent* ★★★★ *Good* ★★★ *Acceptable* ★★ *Poor* ★ *Unacceptable*

THE FIRST DESKTOP UPS



Finally, there's a UPS that belongs on TOP of your desk and not by your feet.

MINUTEMAN's new Pro Series packs a host of new features and unprecedented power protection in a tiny, ergonomic package, plus an unmatched three year-warranty.

Good looks may go a long way for some desktop products, but the Pro Series has so much more to offer PCs, servers, networks, and even telecommunications equipment:

- **Full protection from spikes and surges**
- **Battery backup during blackouts**
- **FAX/modem/data line protection**
- **Available with power management software (280 VA and above)**
- **Hot-swappable batteries**
- **Automatic battery management**
- **Intelligent microprocessor**
- **SNMP-ready (280 VA and above)**
- **Models range from 200 VA to 1400 VA**

Minuteman is the first company to offer you a smart UPS with automatic voltage regulation for under $100.

Call us to find out more about MINUTEMAN's New Pro Series, and see why we say its the first UPS to reach the desktop.

MINUTEMAN®
UNINTERRUPTIBLE POWER SUPPLIES

800-238-7272

www.minuteman-ups.com

MINUTEMAN UPS • 1455 LeMay Drive • Carrollton, TX 75007 • Phone: (214) 446-7363 • Fax: (214) 446-9011 • 24 Hour Info by Fax (800) 263-3933

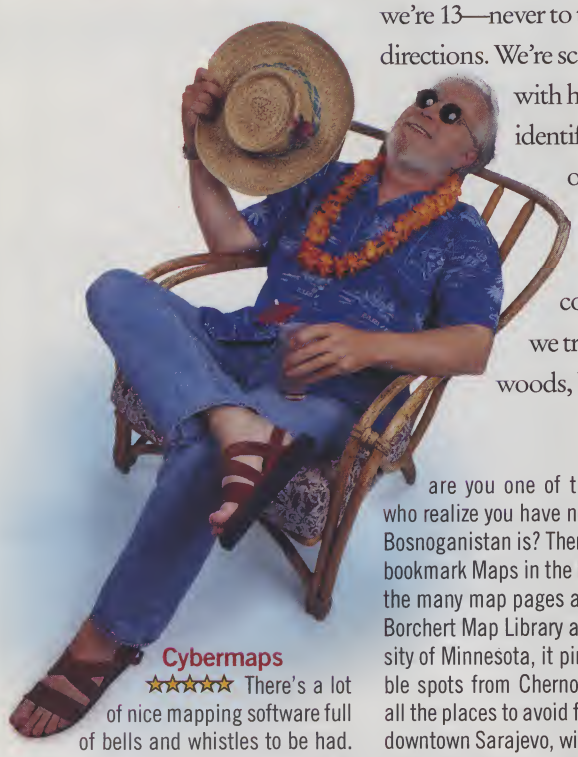
Circle 280 on reader service card.

PCComputing Online
How to Get It All
Get all 1,001 free downloads plus live links to all the sites in Inter.net at
WWW.PCCOMPUTING.COM

Map Mania

BY RON WHITE

I'm breaking a sacred oath all men are required to take when we're 13—never to tell women why guys don't like to ask for directions. We're scared. Back in the cave days, no caveman with half a frontal lobe would ask a stranger where he was. To do so would identify him as being at a disadvantage, ignorant, someone who could be bopped over the head and robbed of his mammoth skin. And chances are he'd never be missed this far from home. So that's also why we modern men like maps. Maps let us bluff it, pretend we're the cavemen of the world, in command of any situation. Of course that notion is proven wrong as soon as we try to fold the map. We men prove that we're not only helpless babes in the woods, but stupid as well. Ah, but with the Web there's no refolding required.



Cybermaps

★★★★★ There's a lot of nice mapping software full of bells and whistles to be had. But if all you want to know is how to drive from this city to that city—and you're too cheap to give money to some nice software store—you can still get maps with step-by-step directions. Surf on over to the Cyber-Router page at the Cybermap site, where DeLorme, publisher of the CD-ROM AAA Map'n'Go, is churning out custom maps. For free! There's no easy way to print out all 32 maps, done AAA style. But if you're not so spoiled that you have to have your computer do *everything* for you, this is one of the best deals on the Web.

www.delorme.com/cybermaps

John R. Borchert Map Library

★★★★ When someone says something like, "Wasn't that terrible what happened in Bosnoganistan?" are you one of those people who realize you have no idea where Bosnoganistan is? Then you need to bookmark Maps in the News. One of the many map pages at the John R. Borchert Map Library at the University of Minnesota, it pinpoints trouble spots from Chernobyl, showing all the places to avoid for picnics, to downtown Sarajevo, with elevations of the surrounding mountains conveniently marked so you can pick the best site to set up the artillery.

www-map.lib.umn.edu/index.html

Maps on Us

★★★★★ Maybe you take the coward's way out. Instead of driving cross-country, you go for death by business class, middle aisle. But even after your plane lands, there's still the rental car and navigating your way through a strange town. That's where Maps on Us is a blessing from the gods. OK, it's really from Lucent Technologies, but no less a miracle. It's an in-town map maker. You tell it what airport—or other location—you're starting from and your destination, and it gives you maps and detailed written directions, with one-click printing of everything. Best of all, the maps are uncannily accurate. This is the only program to pass my personal test—airport to my house—and even knows my secret shortcut. And site registration is priced right—it's free.



Ticket to Ride: If you're lost, Maps on Us can help you find your way back home.

www3.mapsonus.com

National Geographic Map Machine

★★ Hey, National Geographic! I mean, whose maps are more cherished than those by the honorable National Geographic Society? That's why this site's such a major disappointment. The maps never get any closer than continent level, which is a larger scale than most of the traveling I do. The site has a Shockwave Map Machine, which might make it a better site if the machine actually worked.

www.nationalgeographic.com/resources/ngo/maps

Magellan Geographix

★★★★ Actually, the best thing about the National Geographic site is that it led me to this one, which does what you'd expect the Map Machine to do. Within its pitch to sell you vector-based maps are two really good features. One is an interactive map that shows detail beyond the continental level—to city level, in fact. The other neat feature is Maps in the News—but not the Maps in the News at the Borchert Map Library. This one does not have nearly as many maps, but you get a couple of new ones every day. Unfortunately, two days later they're gone—you already missed the map showing the location of the Texas man who, frustrated by his financial losses in breeding emus, used an aluminum bat to club to death 22 of the flightless birds.

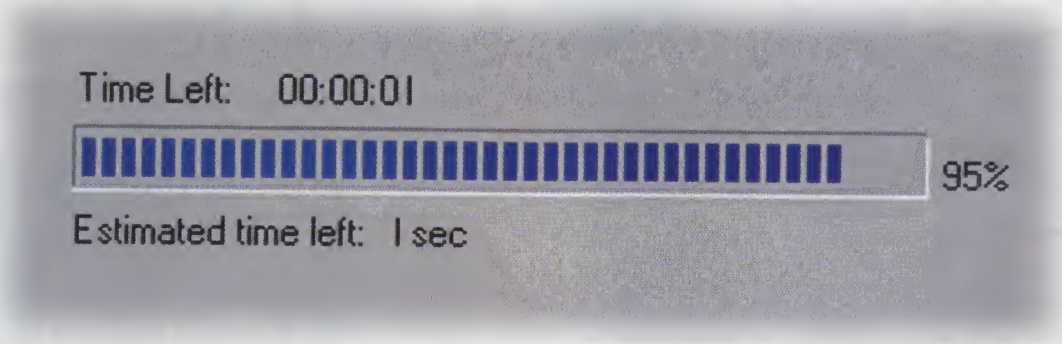


Maps for Sale: Psst! Wanna buy some vector-based maps? Here's the place to start.

www.magellangeo.com/index.html

PHOTOGRAPH BY DAVID PERRY

Ratings: ★★★★★ *Shows the nearest Hard Rock Cafe locations.* ★★★★ *Marks quicksand, poison ivy, and panhandler locations.* ★★★ *Shows where to go, but not where you are.* ★★ *Requires 1,256 separate folds.* ★ *This gol-dern map's printed upside-down!*



Blink and you might miss it.

Modem BLASTER Flash56

MODEM BLASTER Flash56 is twice as fast as ordinary V.34 modems. The high speed MODEM BLASTER Flash56 internal modem lets you surf the Net moving data in a blink of an eye. Installation is fast and easy. MODEM BLASTER Flash56 is packed with advanced features including professional answering, full duplex speaker phone with Sound Blaster Audio Interface* that provides exceptional sound quality and the V.80 interface for video conferencing. Save money with the 24 hour, 'Wake-up on Ring' function* - automatically wake up your computer to receive faxes from any remote location. MODEM BLASTER Flash56 is also bundled with many award winning application software packages.

For more information see your local dealer/distributor or visit the DSI web site.



Come see us at Fall Comdex 97, Booth # S2620

DSI DIGICOM SYSTEMS INCORPORATED
A Subsidiary of CREATIVE

www.digicomsys.com 1-800-833-8900

*Mark for model #DI5600 only. Product incorporates technology provided by Rockwell Semiconductor Systems, Inc.
All the company and/or product names are trademarks or registered trademarks of their respective companies.

Circle 365 on reader service card.

VISIT OUR WEB SITE: WWW.TIGERDIRECT.COM
TigerDirect® GUARANTEED LOWEST PRICES 800-830-0054 ASK FOR A FREE CATALO

If You Need To Find It, Identify It, Manage It Or Send It—Barcode It!

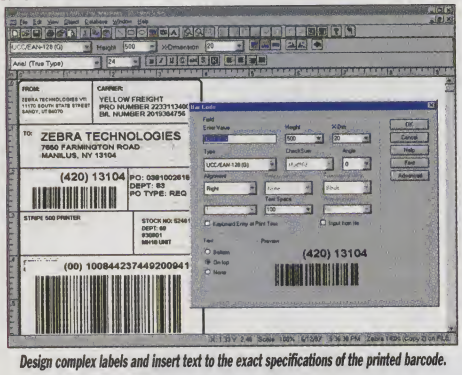
NEW RELEASE!

Everything You Need To Turn Your PC and Printer Into A Complete Barcoding System!

Use your computer, your applications and your data to create labels that will help you control your inventory, track your files, tag your products, mark your parts, manage your assets and label your shipments—with unmatched accuracy. At home, at the office or in the factory. Barcode Anything will help you get organized and save you time and money.

Track Everything... Automatically!

"If you can label it, you can track it with Barcode Anything. Day-in and day-out, this easy-to-install, easy-to-use barcoding system saves time, money and critical information for tens of thousands of users. You can scan data in a millisecond without error; print a seemingly endless supply of labels from your database or from ours; then print powerful reports, instantly and effortlessly. With just a mouse click you can manage parts, packages, products and more. Best of all, Barcode Anything features standard templates and reports that will have you up and running in no time. That's why the Barcode Anything System is number one for small business."



Design complex labels and insert text to the exact specifications of the printed barcode.

Print Bar Code Labels From Your Data – Read Bar Codes Into Any Application – With Ease.

If you need barcoding, you need a serious tool. Barcode Anything creates bar codes that meet exact industry standards. With a click of a button, print bar code labels from almost any spreadsheet, database or accounting package. Then use virtually any Windows-supported printer with a choice of more than 400 label formats to print high-quality bar code labels. Read all popular bar codes into any DOS, Windows 3.1 or Windows 95 application – automatically. Easy to use templates and useful guides help users get up and running in no time. Whether you need a complete system or need to complete the system you have for greater accuracy, with Barcode Anything, it couldn't be easier.

"Label It! Scan It! Track It!

The new Barcode Anything System includes new labeling, scanning and tracking software a high quality scanning wand and much more to deliver greater performance, improved integration and greater ease-of-use.

Here's What You Get...

- Barcode Anything LABEL—use your computer, your applications and your data to create labels that put you in control with unmatched accuracy.
- Barcode Anything SCAN 97™—Scanning wand and software turn data into information—instantly! Includes 32-bit software for Windows 95 and Test/Identifer utility.
- Advanced Scanning Wand—draws low-power consumption through its serial connection, making it ideal for laptops.
- Barcode Anything Tracking Software—complete tracking system lets you manage equipment, parts, packages, files employees, suppliers, and customers right away—even if you've never used a database before.
- Zebra Guide to Barcoding—an informative guide to help you with concepts and implementation issues.
- Let's Do Something In Five Minutes—a hands-on tutorial that will have you barcoding immediately.
- Educational CD ROM with multi-media demonstrations and resource information.
- Sample labels and special saving coupons for Barcode Anything customers.

Hundreds of Applications Including:

- Inventory Control
- Check-in/Check-out
- Asset Management
- Shipping and Receiving
- Time and Attendance
- Document Tracking
- Compliance Labeling
- Labor Tracking
- Automated Data Entry
- Order Entry
- Accounting Management



Zebra Technologies — PC

Item #	Description	Price Each
V14-1042	**Barcode Anything SYSTEM 3.0**	$299.99

Create Accurate Labels From Your Printer



New Barcode Anything LABEL 3.0 supports the most popular industry-standard bar codes and features better and faster design tools. More than 400 label formats and a huge new selection of templates allow users to get started quickly. LABEL 3.0 works with leading spreadsheets, database and accounting applications. Standard ODBC drivers let users create barcodes from existing data files—automatically! Advanced functions let you individually increment/decrement, fix or input label objects from most data files. Design one and you're done!

BONUS!

Barcode Anything LABEL 3.0 includes CD ROM with multi-media demonstrations and resource information to help you get started quickly. Plus... a huge selection of pre-designed sample labels, including many industry-mandated compliance labels.

- Supports all leading industry-standard bar codes—with precision
- Select from over 400 standard label templates or create your own.
- Includes ODBC drivers for standard file formats. With a click of a button, turn your data files into bar code labels—automatically.
- Advanced functions lets you individually increment/decrement, fix or input label objects from most data files. Design one and you're done!
- Bonus...Multimedia CD and the Guide to Barcoding help you design your labels.

Zebra Technologies — PC

Item #	Description	Price Each
V14-1040	**Barcode Anything LABEL 3.0**	$49..99

Turn Data Into Information Instantly!



All-New SCAN 97

Read all the popular barcodes into any DOS, Windows or Windows 95 application... automatically! Anywhere you can type, you can input bar code data.

- Over 3000 times more accurate than keyboard entry... eliminate frequent physical counts and lost sales due to incorrect inventory information.
- Improved portability—draws low-power consumption through its serial connection, making it ideal for laptops.
- Save Time—simple utilities let you customize input for each bar code symbology into any application. Input a series of bar codes without using the keyboard.
- ***New!*** 32-bit, SCAN 97 integrates into the Windows 95 interface and makes more efficient use of system memory.
- ***New!*** Test/Identifier utility tests both the symbology and output of newly designed bar code labels or identifies the bar code you receive.





Zebra Technologies — PC

Item #	Description	Price Each
V14-1038	**Barcode Anything SCAN 97**	$129.99
V14-1008	**Barcode Anything Wedge Wand**	$149.99
V14-1010	**Barcode Anything SCAN CCD**	$249.99

Thermal And Thermal Transfer Printers

NEW LOW PRICE!



Stripe S-300 Printer – The perfect printers for point-of-application labels. The STRIPE S300 is a lightweight, durable printer that produces labels up to 4.5" wide x 15" long at a speed of 2"/sec. The full-size supply roll requires changing less often.

Stripe S-500 Printer – Features more memory and faster print speeds—up to 6"/sec. Prints labels up to 4.5"x6". This printer comes with either a serial or parallel connection. Both printers come with label software and starter kit with labels and ribbon.

A100 Label Printer – • Prints up to 2" per second • Prints label up to 4.25" x 8" • Compact desktop printer • Includes labels, labeling software and WIN driver. *(Not pictured)*

Zebra Technologies — WIN95 • WIN3.1 • 16-BIT

Item #	Description	Price Each
V14-3000	**Stripe S-300 Thermal Printer**	$999.99
V14-3002	**Stripe S-500 Thermal Printer Serial**	$1299.99
V14-1016	**Stripe S-500 Thermal Printer Parallel**	$1299.99
V14-1018	**A100 Label Printer**	$399.99

Zebra Labels and Ribbons also available. For information about these or other products and order placement, call your catalog sales representative today.

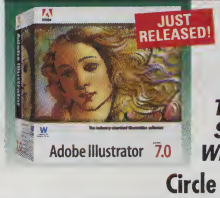
Buy Windrenalin HD & Get SoftRAM 3 For FREE!



Launch Windows 95 Applications Up To 500% Faster! Maximize Your Hard Drive, Accelerate Your CDs!

TIGER EXCLUSIVE! BOTH: $29.99

Adobe Illustrator 7.0



UPGRADE FROM $119.99

The New Industry-Standard Now For Windows 95 And NT!

TO ORDER...ANYTIME
800-830-0054

...Or visit our web site at WWW.TIGERDIRECT.COM. We accept VISA, MasterCard, American Express, Discover and Diners Club. All products carry Tiger's 30-Day GUARANTEE against defects. Returns for defective exchange only. Call for more information and details on exact shipping charges. *All prices subject to change*

FREE Tiger Catalog

Get a FREE subscription of the TigerDirect catalog—each issue features over 100 pages packed with new hardware, software, systems and accessories! You'll get the latest on the best that the computer industry has to offer, at the lowest prices!

800-830-0054

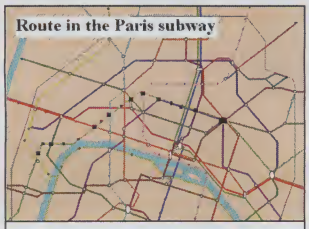


Circle 250 on reader service card.

HOT SPOTS

Subway Navigator

★★★★ *You know how it is.* You're new in town, you get on the wrong subway, and next thing you know, *pow*, you get off on some other planet in another time-space continuum. Sure, happens all the time. But you can avoid the accompanying (and embarrassing) dissolution of all your molecules by taking a quick stop at Subway Navigator. It covers subways from Chicago to St. Petersburg, Russia.



Le Navigator du Subway: Haunt your way around the City of Light on le métro.

It even includes Miami, which I didn't know had enough solid ground to dig a tunnel through. Click on subway stops on a map or just fill in the name of the departure and arrival stations, and Subway Navigator gives you a map of the underground system, detailed instructions—in English or French—on what trains to take, and even how long the trip should be. There's no map of New York City, which is odd, but the site author invites New Yorkers to help him construct the map. You can get text instructions, which are still easier to understand than anything a NY cabbie tells you.

metro.jussieu.fr:10001/bin/cities/english

Color Landform Atlas of the United States

★★★★ Like most things that are *really* cool, this Web site is pretty much useless for most of us. It's a collection of high-resolution satellite photos of each state rendered in psychedelic colors matched to the ground topography. Pretty, but they certainly won't help you find Interstate 10. And fascination with the photographs can lead to addiction to harder sites, such as the next.

fermi.jhuap1.edu/states/states.html

St. Paul Sewer Tour

★★★★★ Thought we couldn't get any lower, map-wise, than the subways of Paris? How about the sewers of St. Paul? In addition to a map of the underground lines, the St. Paul Sewer Tour shows you sewers are more interesting than you ever imagined. You've never seen a happy-face laser or a Vactor—an enormous wet vacuum that sucks about 6,000 cubic feet of dirt, sand, and bricks per minute? That's because you don't spend enough time in sewers. Don't let this chance slip by.

www.pioneerplanet.com/archive/sewertour/docs/map.htm

OTIS FANS



And you thought you were a nerd for liking computers. It could be worse. You could be a member of the State Highpointers Club, an online community of people who are fascinated by the highest elevations in each of the states and who have dedicated themselves to being photographed on every 50 of them. At the club's official site, Michael Fedor's Unofficial State Highpointers Club WWW Site, you can call up a map for each state showing its high point, various elevation trivia, and, if you're lucky, a photo of one of the club members standing on a big rock.

www.cris.com/~Mfedor/statehps/statehipointer.shtml

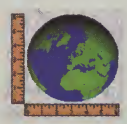
ALL THE DIRT

Forget the *National Enquirer*. You want real dirt, you go to The Museum of Dirt. Check out dirt from around the world and the backyards of the rich and infamous. View a sample from Sonny Bono's front yard and lint from Dave Barry's pocket. Don't miss the section of letters from the likes of spoilsports Tea Leoni, George Lucas, and Michael Eisner, who declined to contribute any dirt to posterity.



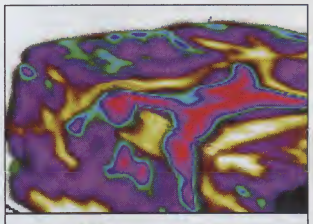
www.planet.com/dirtweb/dirt.html

HOW FAR IS IT?



So you don't really want to go anywhere, but you want to know how far it would be if you actually got off your butt. With How Far Is It, you can type in a couple of city names and get the distance, in miles, nautical miles, and kilometers.

www.indo.com/distance



Gray Matter: This is your brain on the Web, color-mapped to show brainwave activity. A rather colorful site, eh?

Human Brain Project

★★★★★ The Human Brain Project is chock-full of words that taxed my brain with images of and guides to the brain. There are some Java apps and virtual reality tours of the brain. I spent a couple of hours downloading various VRML add-ins, installing them, and then nursing Microsoft Explorer back to health. One conclusion: VRML sucks. If you can get the VRML tours to work—they do look gee-whiz cool—drop me a line at ron_white@zd.com and let me in on the secret.

hendrix.ei.dtu.dk/home.html

Visible Human Project

★★★★★ Here's a map to an area you probably haven't explored much since you were 13—your body. Well, it's actually several dead guys' bodies immortalized at the National Library of Medicine's Images and Animations from the Visible Human Project. The VHP is an ongoing effort to create cross-section views of the body from MRI scans and from thin slices through fresh and frozen cadavers. (You thought your freezer was too small?) The coolest body trip at the site is a 753K color MPEG animation that takes you straight down from topknot to toes at a dizzying speed. With lots of links to other sites where you can pick up software for more detailed voyages of the body.

www.nlm.nih.gov/research/visible/visible_gallery.html

PC Computing *(ISSN 0899-1847) is published monthly by Ziff-Davis Inc., One Park Ave., New York, NY 10016. Periodicals postage paid at New York, NY 10016, and at additional mailing offices. Postmaster: Send address changes to* PC Computing, *P.O. Box 58229, Boulder, CO 80328-8229. Printed in the U.S.A. Canada Post International Publications Mail Product (Canadian Distribution) Sales Agreement No. 278513. The Canadian GST registration number is 14049 6720 RT.*

VISIT OUR WEB SITE: WWW.TIGERDIRECT.COM

TigerDirect® GUARANTEED LOWEST PRICES 800-830-0054 ASK FOR A FREE CATAL

New! 233 Powerhouse FROM $999.99

BUILD IT AND SAVE!

Your Choice Of Processor:
Pentium MMX
AMD-K6 MMX
Cyrix 6x86MX
233

Imagine—assemble a brand new multimedia powerhouse and save up to $300! Choose just the right processor for your kind of work from the best in the industry... a Pentium MMX 233MHz... or the AMD-K6 MMX 233MHz... or the IBM/Cyrix 6x86MX PR233. These are complete kits, easily assembled for a full-featured multimedia system. Is it easy? YES! In fact, you need only a screwdriver and about an hour—it's easier to assemble than that barbeque on your patio! Our state-of-the-art motherboard, high-speed memory and floppy drive are all pre-installed and 100% tested. Complete multimedia kit includes a high-speed 20X CD-ROM drive, 16MB DIMM memory, 33.6K faxmodem with voice (upgradable to 56K), 16-bit SoundBlaster Pro-compatible audio with 3D Surround Sound and Wavetable-based MIDI, huge EIDE hard disk, S3 ViRGE 3D video with a full 4MB memory, premium Windows 95 keyboard, PS/2 mouse, digitally tuned stereo speakers, cables and more.

It's easy to assemble your new multimedia computer. We'll send you our step-by-step booklet to show you how it's done. After following the simple and easy-to-understand steps, you'll know how easy it is to add a second hard disk, add more memory, or even upgrade to a faster processor in the future. These are the same reliable, high-performance components we use in our own Tiger systems. Great value!

intel inside

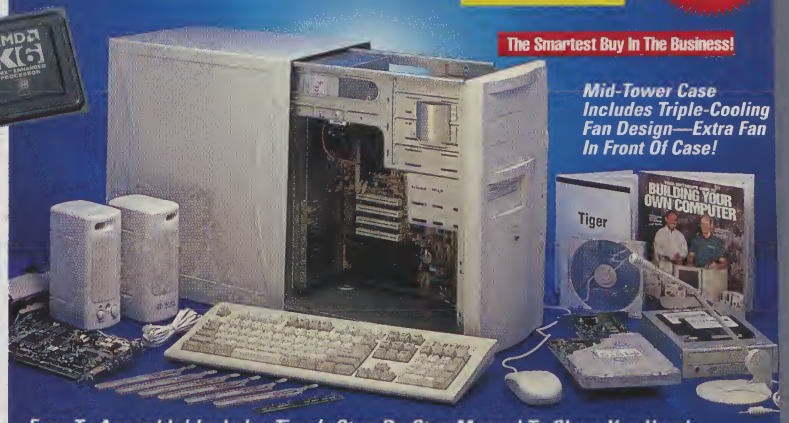
Multimedia Kit Includes Everything! 100% Compatible!

State-of-the-art Motherboard accepts both SIMMs and new, faster DIMMs!

S3 ViRGE 3D Video With 4MB Memory!

FASTEST 16MB DIMM INSTALLED

The Smartest Buy In The Business!



Mid-Tower Case Includes Triple-Cooling Fan Design—Extra Fan In Front Of Case!

Easy To Assemble! Includes Tiger's Step-By-Step Manual To Show You How!

The Press Says Tiger Builds Great Computers...

" The Tiger K6 233 was this roundup's leading performer..."
"...its Business Winstone score led the pack."
"...its MMX numbers were unmatched."

PC Magazine Review of AMD-K6 Systems—June 24, 1997

PC MAGAZINE

YOU GET ALL THIS:

- Cyrix 6x86MX PR233 or AMD-K6 MMX 233MHz or Pentium MMX 233MHz or IBM/Cyrix 6x86 PR200+
- PCI Motherboard
- 9-Bay Mid-Tower Case
- 16 MB EDO DIMM RAM
- 3.0 or 4.3 GB EIDE Hard Disk
- 20X EIDE CD-ROM
- 33.6 KB Voice/Faxmodem
- 16-Bit 3D Surround Sound
- Amplified Stereo Speakers
- S3 ViRGE 3D Video With 4MB
- Premium Keyboard
- PS/2 Two-Button Mouse
- 3.5" 1.44MB Floppy Drive
- 512KB Pipelined Burst Cache
- 4 PCI and 4 ISA Slots
- ECP/EPP Parallel Port
- Two 16550 Serial Ports
- Two Universal Serial Bus Ports
- Onboard Jack for Infrared Port
- Third Cooling Fan in Case
- 200-Watt Power Supply
- Motherboard, CPU, RAM and Floppy Pre-installed and Tested

BUILD IT YOURSELF AND SAVE!

Tiger Assemble-It-Yourself Multimedia Kits

Item #	Processor	CD-ROM	Hard Disk	Price
A113-8801	Cyrix 6x86 PR200+	20X	3.0GB	$799.99
A113-8806	Cyrix 6x86MX PR233	20X	3.0GB	$999.99
A113-8705	AMD-K6 MMX 233MHz	20X	4.3GB	$1,129.99
A113-8605	Pentium MMX 233MHz	20X	4.3GB	$1,229.99

Sorry but as prices are always changing on CPUs, we do not offer price protection in the event prices rise or fall. Ask for details and warranty information. Case design may vary due to updates.

Visit www.tigerbooks.com For Great Selection And Prices On Over 15,000 Computer Book Titles!

The Philips VELO 1 Is Here!

The Most Advanced Handheld Windows Computer In The World



JUST $639.99

Batteries Included!

P135-1010 Velo 1 Handheld PC w 4MB/ dock & Rechargeable battery . $639.99

The Industry-Standard Zip!



FROM $119.99

I21-1210 ZIP 100 Drive . . . $139.99
D55-9901 Insider IDE $119.99*
*Requires Windows 95. While supplies last!

2x/6x CD Recording System

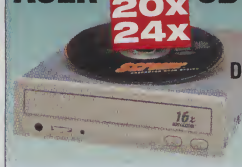


JUST $399.99

PC

A113-9501 2X/6X Internal EIDE CD-R WIN . . . $399.99
A113-9503 2X/6X Internal SCSI CD-R WIN. . . $399.99
A113-9505 2X/6X External SCSI CD-R WIN . . $449.99
A113-9507 2X/6X External Parallel CD-R WIN . $449.99
T99-9000 74 Min. CDR Media (5 Pack). $29.99

ACER 16X 20X 24X CD-ROM



The Acer CD-ROM Drive Reads The New CDRW Format!

A179-1000 Acer 16X kit & Games $79.99
A179-1002 Acer 20X kit & Games $94.99
A179-1004 Acer 24X kit & Games $109.99

U.S. Robotics X2 TECHNOLOGY

U.S. Robotics Sportster 56K/14.4 X2 Internal Modem

$50 MAIL-IN REBATE

U13-2034 INTERNAL DATA/FAX 149.99*
U13-1042 INTERNAL W/VOICE 169.99*
*After $50 mail-in rebate from U.S. Robotics. Valid through 10/14/1997.

Scan Everything On Your Desk!



Scan Photos, Receipts, Letters, Memos, Articles, Forms, Business Cards And More!

JUST $299.99

COLOR!

PC

V24-1016 Visioneer PaperPort Strobe $299.99

Genuine IBM Keyboard!

Universal Design!
Tactile Keys!



JUST $19.99

D55-6114 IBM Keyboard . . $19.99

HP DeskJet 672C Printer



JUST $199.99

New!

Incredible Printing, Incredible Price!

H24-1007 HP DeskJet 672C Printer $199.99

MEMORY SALE!

PNY "The Memory Leader...Worldwide."

TigerDirect Exclusive Promotion Memory prices subject to change.

SIMM: EDO OR FAST PAGE SAME PRICE

16MB $79.99 #P56-1007 FAST PAGE | #P56-1023 EDO
32MB $159.99 #P56-1009 FAST PAGE | #P56-1025 EDO

DIMM: SDRAM OR EDO SAME PRICE

16MB $99.99
32MB $199.99

EDO DIMMs—3.3v Burst-EDO Non Buffered 168-Pin
SDRAM DIMMs—3.3v 10ns (Up To 100 MHz) Non Buffered 168-Pin
#P56-1209 - 16 MB #P56-1210 - 32 MB

3GB HARD DRIVE

- CAPACITY – 3.0 GB • INTERFACE – EIDE Mode 4
- SEEK TIME – 14 msec • TRANSFER RATE – 16.6 MB/S
- SPINDLE SPEED – 4500 RPM • BUFFER – 128KB
- BAY SIZE – 3.5" • WARRANTY – 3 years

JTS CHAMPION INCREDIBLY PRICED! JUST... $199.99 A113-9017

ALSO AVAILABLE...

WESTERN DIGITAL KITS

W10-1136	3.1 GB	259.99
W10-1138	4.0 GB	299.99*
W10-1140	5.1 GB	369.99*

MAXTOR KITS

M122-2000	2.1 GB	209.99*
M122-2004	3.5 GB	289.99*
M122-2008	7.0 GB	469.99*

*Price after $30 mail-in rebate. Prices subject to change.

VISIT OUR WEB SITE: WWW.TIGERDIRECT.COM

TigerDirect® GUARANTEED LOWEST PRICES 800-830-0054 ASK FOR A FREE CATALOG

The World's Most Advanced Notebook; 233MMX or 6x86!

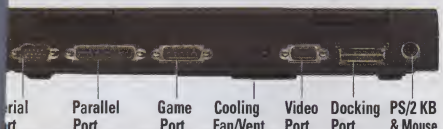
4 Affordable Models Available, Including Cyrix 6x86L PR166+ ...PLUS! Intel Pentium 233MMX With Brilliant 12.1" Active Matrix Screen!

days of overpriced notebook PCs are over! Tiger presents a new line- of ultra-powerful notebooks that deliver the absolute latest technology direct-from-the-manufacturer prices. We have four advanced stock sys- s, including a low-voltage IBM/Cyrix 6x86L PR166+ model, a Pentium MMX, Pentium 200MMX, and the world's fastest notebook—a speed- ming Pentium 233MMX! Plus we can custom-configure any system to r specifications. The chart below contains all the specs on these indi- ual configurations, so take a look—compare and you'll love our new er notebooks—and they're covered by a rock-solid guarantee!

cked With The Latest Technology!

ncluding your choice of huge 12.1" Active Matrix or high-contrast Dual an displays! Although we offer Tiger models with Active Matrix display, won't be disappointed with the 12.1" Dual Scan—and the price is believably low! All of our notebooks include a long list of impressive fea- es, including 256KB of Pipelined Burst L2 cache, 128-bit PCI graphics, card support (for full-screen MPEG), an NTSC-Composite Video port presentations and built-in premium digital stereo speakers. They also rt 16-bit SoundBlaster compatible audio, stereo line-in, line-out, ear- one and microphone. And remember, this notebook runs on a recharge- le Duracell-compatible battery, making it easy to buy spares. And on subject of power, we've eliminated the energy-gobbling internal dem (that runs constantly) and recommend a PCMCIA modem (see cessories box) for improved battery life and easy modem upgrades.





Here's What's Inside the Tiger Notebooks...

PROCESSING	
Memory:	• 16, 32 or 48 MB EDO; expandable to 80MB; (16MB onboard plus one SO-DIMM Socket)
BIOS:	• 256KB FLASH Phoenix BIOS includes System & VGA BIOS • Boot from CD-ROM, Plug & Play; APM 1.2; Shadow BIOS
Level 2 Cache:	• 256KB Pipeline Burst L2 cache
VIDEO	
Display:	12.1" Color LCD Screen • 800x600 in 256K colors (Dual Scan) • 800x600 in 64K colors (Active Matrix)
External CRT:	• 640x480 in 16 million colors • 800 x 600 in 64K colors • 1024x768 in 256 colors
VGA:	• 1.2MB RAMBUS Video DRAM (High-speed) • ZV support for PCMCIA MPEG cards • PCI-based 128-bit graphics accelerator
Port:	• One 15-pin VGA port, simultaneous display • Composite Video Output
AUDIO	
Features:	• 16-bit Stereo Sound • Sound Blaster compatible • Built-in microphone & stereo speakers
Ports:	• Stereo Line-in; Line-out; earphone; mic
MULTIMEDIA	
MPEG:	• Software MPEG Function support
I/O	
PCMCIA:	• Two Type II or one Type III; Plug & Play
Ports:	• (1) 9-pin serial port, (1) 15-pin game port, (1) 15-pin CRT port; (1) 25-pin parallel port; (1) Ext. PS/2 keyboard/mouse port, supports Y connector; (1) FIR infrared port; (1) TV Out port; (1) 80-pin expansion port
Disk Drives:	• Internal 3.5" floppy disk drive; 720KB/1.44MB • Upgradeable hard disk drive; Master EIDE interface; 1.3, 1.6, 2.0 or 3.0 GB HD included
CD-ROM:	• Built-in 5.25" format; 10-speed
Keyboard:	• 87/88-key; inverted-T cursor keys • Supports Extra Windows 95 Hot Keys
WEIGHT:	7.5 Pounds With Battery

"The Tiger GT offers high-end components and a brilliant display in a value-priced notebook... for pure price and features, the Tiger GT is the King."
–October '97 Computer Shopper

Hot Color!
The 12.1" SGVA Dual Scan or Active Matrix display delivers crisp, brilliant 800 x 600 resolution.

Easily Connect With The World...
Two Type II or one Type III PCM-CIA slots provide you with a world of communications options including faxmodem and Ethernet connections.

Ergo Functionality.
The integrated GlidePad with 2 buttons enables you to navigate easily in Windows.

Glide Pad.
The world's easiest pointing device.

Work Hard, Play Hard!
Includes lightning-fast 10x CD-ROM for multimedia, reference—or play your favorite audio CDs; even while you're working!



AMAZING! $1699.99
6x86L PR166+, 16MB EDO RAM
1.3GB Hard Drive
10X CD-ROM

Pure Digital Sound
Built-in digital stereo speakers deliver exceptional 16-bit SoundBlaster com-patible audio.



Duracell-Compatible Battery.
Replace Easily!

Up To 48MB EDO RAM! Includes SO-DIMM RAM Socket
...For Easy Upgrades Up To 80MB!

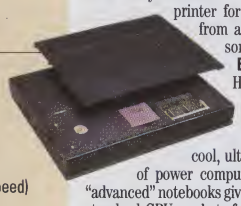
Gigabytes Of Capacity.
Store multimedia, sound, video, and graphics on massive 1.3, 1.6, 2.0 and 3.0 GB hard drives.



All Tiger Notebooks Include Corel's Acclaimed WordPerfect Suite 8

Available In New Power-Saving 6x86L-PR166+ And Pentium 166MMX, 200MMX And 233MMX Versions! All Include Standard Processor Socket For Easy Future Upgrades!

Affordable And Advanced...
With a full range of I/O ports tucked neatly away in the back, this advanced note-book lets you connect to a host of peripheral options. Plug in a scanner and printer for desktop publishing, or enjoy simultaneous viewing from an external monitor—or plug in a joystick and have some fun!



Easy Upgradability—Memory *And* Processor!
Hidden by a removable cover, the standard SO-DIMM memory socket and Pentium or Cyrix processor (in a standard 321-pin socket) are easily accessible for future upgrading. A heat sink and mini-fan ensure a cool, ultra smooth-operating processor, even after long hours of power computing. Check around—not many of today's so-called "advanced" notebooks give you the ability to upgrade! These Tiger notebooks use standard CPU sockets for hassle-free replacement when new processors arrive. Tiger's new breakthrough in price and performance means more value for your money! PLUS—we've pre-installed Windows 95 and Corel's new WordPerfect Suite 8 on all models! Great value!

All Tiger Notebooks include an AC Adapter.



NEW! CONFIGURATIONS AVAILABLE!
We will custom-build these notebooks to your exact specifications! Call for a complete list of options! Design the perfect notebook!

HOT TIGER NOTEBOOK ACCESSORIES

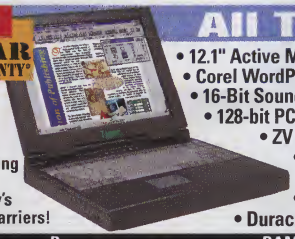
A113-5910	8MB SO-DIMM $79.99	A113-5940	Port Replicator . $149.99
A113-5912	16MB SO-DIMM $149.99	A113-5950	Extra Battery $99.99
A113-5914	32MB SO-DIMM $279.99	T22-1001	Targus Case $39.99
A113-5915	64MB SO-DIMM $599.99	H52-1024	Hayes Optima 33.6 PCMCIA Modem $199.99*
A113-5960	Extra AC Adapter $99.99		

** After $20 Hayes mail-in rebate.*

Port Replicator Available...
Just connect your external keyboard, printer, mouse and monitor! A compact docking station!
(Requires AC Adapter)



1 YEAR WARRANTY



We're Shattering The Industry's Price Barriers!

All Tiger Notebooks Include...

- 12.1" Active Matrix or High-Contrast Dual Scan Display • Windows 95 Pre-Installed
- Corel WordPerfect Suite 8 Pre-Installed • TV-out Port for big-screen presentations
- 16-Bit SoundBlaster compatible audio • PCMCIA slot—Type II or Type III
- 128-bit PCI graphics With 1.2MB RamBUS RAM
- ZV card support for full-screen MPEG
- Built-in digital stereo speakers
- GlidePad pointing device
- 3.5" 1.44MB Floppy drive
- Duracell-compatible NiMH battery

NSTL MULTI-TEST STANDARDIZED COMPATIBLE

Designed for Microsoft Windows 95

10-Day Money-Back Guarantee!

Item#	Processor	RAM/Exp. To	Hard Drive	CD-ROM	System	Screen	Price
A113-5010	**Cyrix 6x86L PR166+**	16MB EDO/80MB	1.3 GB	10X	Windows 95	12.1" Dual Scan	$1,699.99
A113-5030	**Intel Pentium 166MMX**	16MB EDO/80MB	1.6 GB	10X	Windows 95	12.1" Active Matrix	$2,299.99
A113-5040	**Intel Pentium 200MMX**	32MB EDO/80MB	2.0 GB	10X	Windows 95	12.1" Active Matrix	$2,729.99
A113-5050	**Intel Pentium 233MMX**	48MB EDO/80MB	3.0 GB	10X	Windows 95	12.1" Active Matrix	$3,499.99

TOSHIBA 220 CDS $1969.99



- Pentium133 MHz
- RAM/Max 16MB/144MB
- HD/CD ROM 1.34/10X
- Color Display 12.1" Dual Scan

T29-1528 220CDS $1969.99

COMPAQ Armada 1500 $1849.99



- Pentium 120MHz
- RAM/Max 16MB/80MB
- HD/CD ROM 1.08/10X
- Color Display 11.3" Dual Scan • Modem 33.6

C150-1513 Armada 1510DM $1849.99

HITACHI VisionBook Plus $1799.99



- Pentium 133MHz
- RAM/Max 16MB/128MB
- HD/CD ROM 1.4/10X
- 12.1" HA-STN LCD Color • 33.6 USR Modem

H98-1507 VisionBook Plus 4140 . . $1799.99

TO ORDER...ANYTIME
800-830-0054
...Or visit our web site at WWW.TIGER-DIRECT.COM. We accept VISA, MasterCard, American Express, Discover and Diners Club. All products carry Tiger's 30-Day GUARANTEE against defects. Returns for defective exchange only. Call for more information and details on exact shipping charges. *All prices subject to change*

FREE Tiger Catalog
Get a FREE subscription of the TigerDirect catalog—each issue features over 100 pages packed with new hardware, software, systems and accessories! You'll get the latest on the best that the computer industry has to offer, at the lowest prices!
800-830-0054



CLD

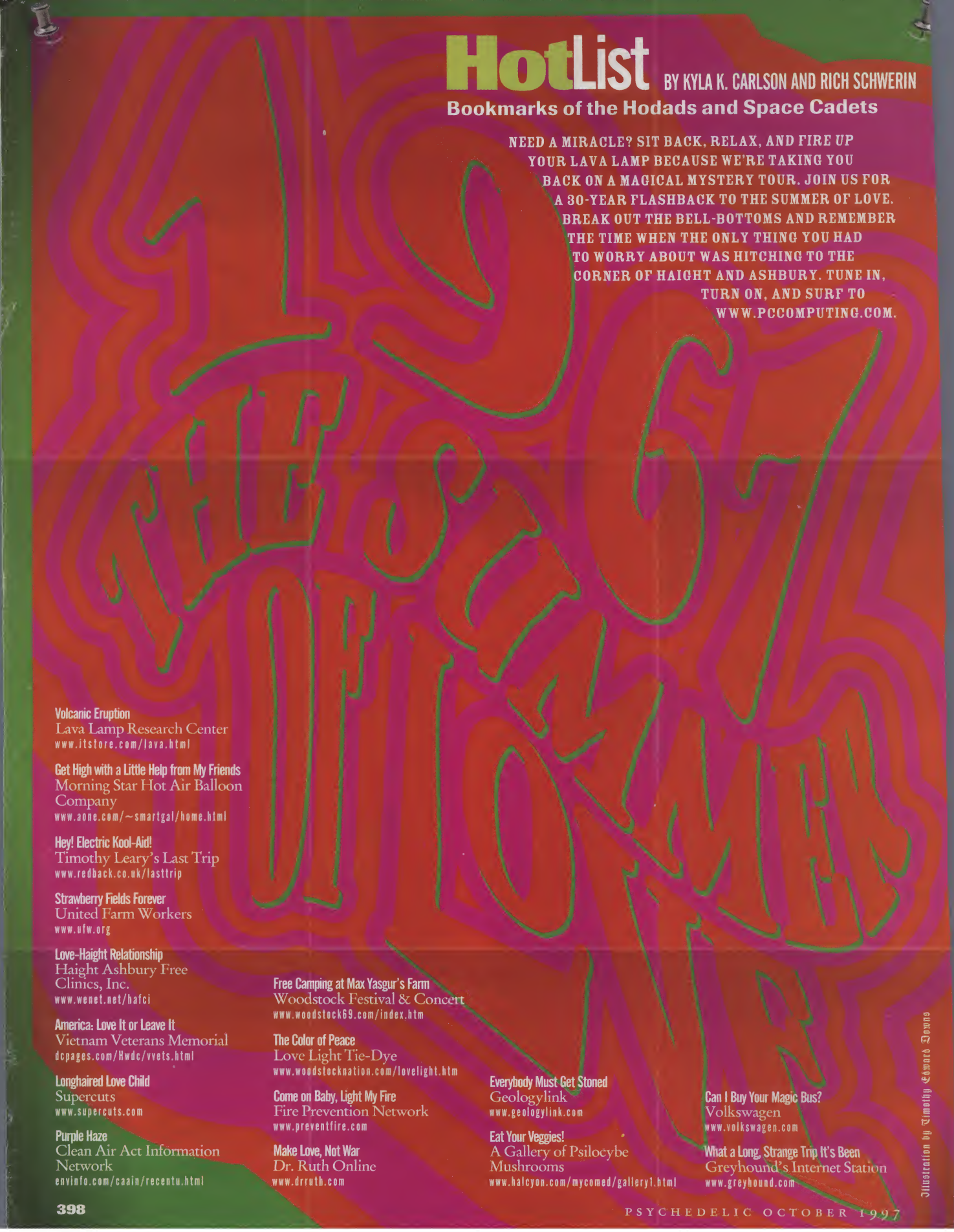
Circle 250 on reader service card.

HotList

BY KYLA K. CARLSON AND RICH SCHWERIN

Bookmarks of the Hodads and Space Cadets

NEED A MIRACLE? SIT BACK, RELAX, AND FIRE UP YOUR LAVA LAMP BECAUSE WE'RE TAKING YOU BACK ON A MAGICAL MYSTERY TOUR. JOIN US FOR A 30-YEAR FLASHBACK TO THE SUMMER OF LOVE. BREAK OUT THE BELL-BOTTOMS AND REMEMBER THE TIME WHEN THE ONLY THING YOU HAD TO WORRY ABOUT WAS HITCHING TO THE CORNER OF HAIGHT AND ASHBURY. TUNE IN, TURN ON, AND SURF TO WWW.PCCOMPUTING.COM.



Volcanic Eruption
Lava Lamp Research Center
www.itstore.com/lava.html

Get High with a Little Help from My Friends
Morning Star Hot Air Balloon Company
www.aone.com/~smartgal/home.html

Hey! Electric Kool-Aid!
Timothy Leary's Last Trip
www.redback.co.uk/lasttrip

Strawberry Fields Forever
United Farm Workers
www.ufw.org

Love-Haight Relationship
Haight Ashbury Free Clinics, Inc.
www.wenet.net/hafci

America: Love It or Leave It
Vietnam Veterans Memorial
dcpages.com/Hwdc/vvets.html

Longhaired Love Child
Supercuts
www.supercuts.com

Purple Haze
Clean Air Act Information Network
envinfo.com/caain/recentu.html

Free Camping at Max Yasgur's Farm
Woodstock Festival & Concert
www.woodstock69.com/index.htm

The Color of Peace
Love Light Tie-Dye
www.woodstocknation.com/lovelight.htm

Come on Baby, Light My Fire
Fire Prevention Network
www.preventfire.com

Make Love, Not War
Dr. Ruth Online
www.drruth.com

Everybody Must Get Stoned
Geologylink
www.geologylink.com

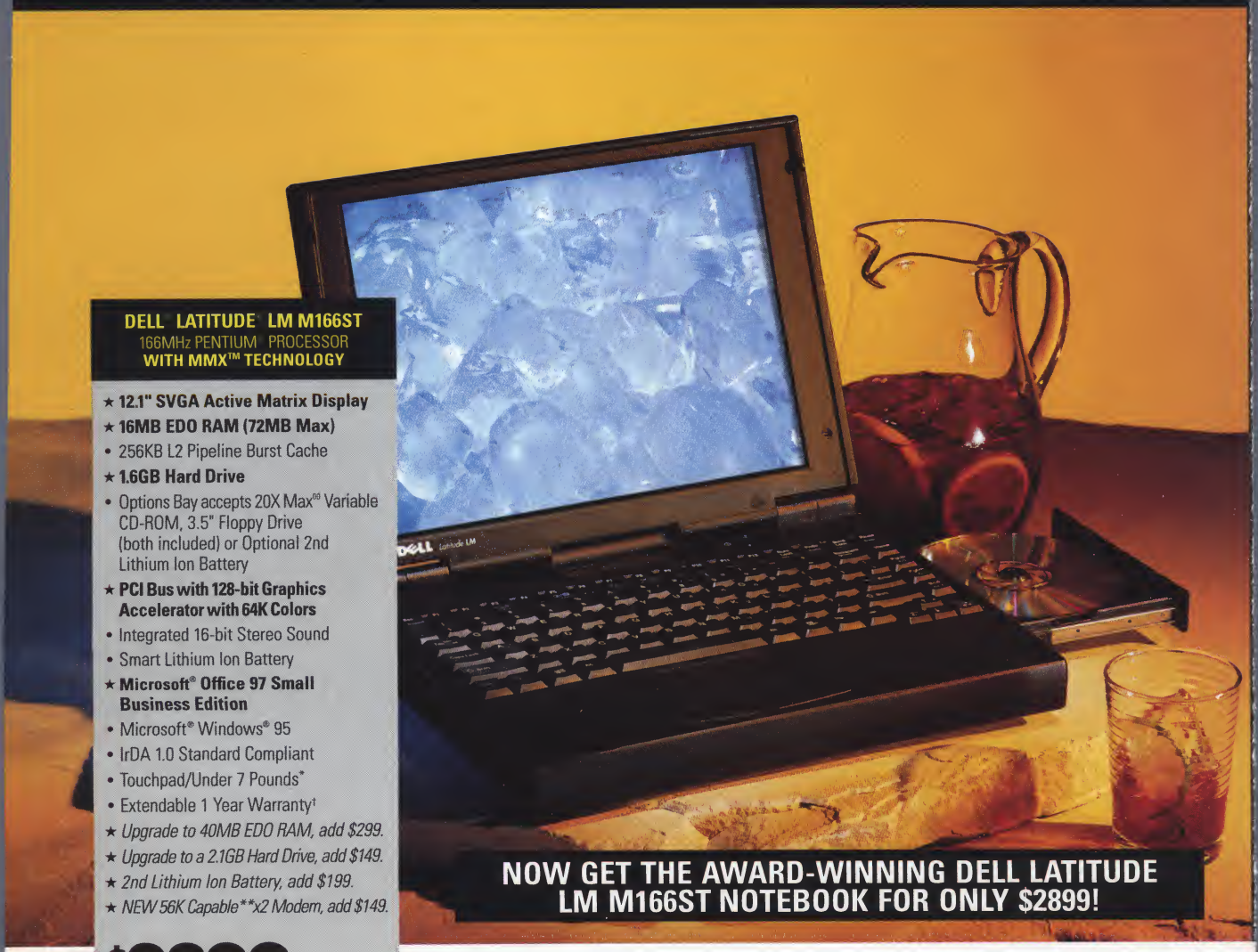
Eat Your Veggies!
A Gallery of Psilocybe Mushrooms
www.halcyon.com/mycomed/gallery1.html

Can I Buy Your Magic Bus?
Volkswagen
www.volkswagen.com

What a Long, Strange Trip It's Been
Greyhound's Internet Station
www.greyhound.com

Illustration by Timothy Edward Downs

QUENCH YOUR THIRST FOR POWER WITHOUT DRAINING YOUR WALLET.



DELL® LATITUDE™ LM M166ST
166MHz PENTIUM® PROCESSOR
WITH MMX™ TECHNOLOGY

- ★ **12.1" SVGA Active Matrix Display**
- ★ **16MB EDO RAM (72MB Max)**
- 256KB L2 Pipeline Burst Cache
- ★ **1.6GB Hard Drive**
- Options Bay accepts 20X Max[66] Variable CD-ROM, 3.5" Floppy Drive (both included) or Optional 2nd Lithium Ion Battery
- ★ **PCI Bus with 128-bit Graphics Accelerator with 64K Colors**
- Integrated 16-bit Stereo Sound
- Smart Lithium Ion Battery
- ★ **Microsoft® Office 97 Small Business Edition**
- Microsoft® Windows® 95
- IrDA 1.0 Standard Compliant
- Touchpad/Under 7 Pounds*
- Extendable 1 Year Warranty†
- ★ *Upgrade to 40MB EDO RAM, add $299.*
- ★ *Upgrade to a 2.1GB Hard Drive, add $149.*
- ★ *2nd Lithium Ion Battery, add $199.*
- ★ *NEW 56K Capable**x2 Modem, add $149.*

$2899

Business Lease◊: $105/Mo.
Order Code #800140

DELL®

TO ORDER TOLL-FREE

888-679-3355

TO ORDER ONLINE

www.dell.com/buydell

Mon-Fri 7am-9pm CT • Sat 10am-6pm CT
Sun 12pm-5pm CT In Canada,* call 800-233-0750
GSA Contract #GS-35F-4076D

Keycode #02259

Sure. Power comes at a price. Fortunately, it's one you can afford. Because we've lowered the price on our award-winning, powerhouse notebook, the Latitude LM M166ST. You see, we started out with the 166MHz Intel® Mobile Pentium® processor with MMX™ technology with a 32KB internal cache. Then we added an improved 128-bit graphics accelerator for blazing fast video, 64K color depth and true multimedia functionality. The result? Well, *Windows Magazine* tested an LM M166ST configuration†† and puts it subtly in their August '97 issue: "The fastest notebook we've ever tested with every option you could ever want." Not bad for a notebook line starting at under $3000. And you get all this from the only notebook manufacturer to receive an "A" grade based on *PC Magazine*'s July '97 Service and Reliability Readers' Survey results. So go ahead and give us a call. Because while the performance puts the LM M166ST over the top, the price brings it well within reach.

MMX™ intel inside pentium® PROCESSOR

rvice
add $99.

LL DIMENSION M200a
MHz PENTIUM PROCESSOR
TH MMX TECHNOLOGY

nmon features listed above plus:
6MB SDRAM Memory
2GB Hard Drive (12ms)
00HS Trinitron Monitor
3.7" v.i.s., .26dp)
MB EDO ViRGE 3D Video
Com 3C509B EtherLink III
0Mbit ISA Combo Card
mega Zip 100MB Internal Drive
ith One Cartridge
pgrade to 32MB SDRAM, add $99.
ound Blaster 16 PnP and Altec
ansing ACS-90 Speakers, add $89.

1799

siness Lease: $65/Mo.
r Code #500905

SOFTWARE DESCRIPTIONS

MS Office 97 Small Business Edition (SBE) includes:
- Word 97
- Excel 97
- Publisher 97
- Outlook 97
- Automap Streets Plus
- Small Business Financial Mgr 97
- Internet Explorer 3.0

MS Home Essentials plus Best of Entertainment Pack (available on desktops only) includes:
- Word 97
- Works 4.0
- Encarta 97
- Greetings Workshop
- Arcade
- Internet Explorer 3.0
- TETRIS, Taipei, SkiFree, Dr. BlackJack and more.

DELL POWEREDGE SERVERS

Common features: ◆ 512KB Integrated L2 ECC Cache ◆ Integrated PCI Ultra-Wide SCSI-3 Controller ◆ Intel® Pro/100B PCI Ethernet Adapter ◆ Intel LANDesk® Server Manager v2.5x ◆ **3 Years Next Business Day On-site Service**

DELL® POWEREDGE® 2200 SERVER
266MHz PENTIUM II PROCESSOR
Dual Processor Capable, RAID Capable

Common features listed above plus:
- 64MB ECC EDO Memory (512MB Max)
- 4GB Ultra-Wide SCSI-3 Hard Drive (27GB Max)
- 8X SCSI CD-ROM Drive
- 3Com Office Connect Hub 8-Port/TPC
- MS Windows NT® Server 4.0 (10 Client Access Licenses)
- 6 Drive Bays: 3 Hard Drive, 3 Removable Media
- 6 Expansion Slots: 3 PCI, 3 EISA

$4749

Business Lease: $166/Mo.
Order Code #250081

DELL POWEREDGE 2200 SERVER
233MHz PENTIUM II PROCESSOR
Dual Processor Capable, RAID Capable

Common features listed above plus:
- 32MB ECC EDO Memory (512MB Max)
- 2GB Ultra-Wide SCSI-3 Hard Drive (27GB Max)
- 8X SCSI CD-ROM Drive
- MS Windows NT Server 4.0 (10 Client Access Licenses)
- 6 Drive Bays: 3 Hard Drive, 3 Removable Media
- 6 Expansion Slots: 3 PCI, 3 EISA

★ *APC Smart-UPS 700w Power Supply, add $399.*

$3749

Business Lease: $134/Mo.
Order Code #250085

MS ARE BUILT FOR SPEED.
ED TO FLY.

DELL LATITUDE NOTEBOOKS

Common features: ◆ 256KB L2 Pipeline Burst Cache ◆ Options Bay accepts CD-ROM (20X Max^ Variable on LM M166ST or 12X Max^ Variable on LM M133ST), 3.5" Floppy Drive (both included), or Optional 2nd Li-Ion Battery ◆ PCI Bus with 128-bit Graphics Accelerator with 64K Colors ◆ Integrated 16-bit Stereo Sound ◆ Smart Lithium Ion Battery ◆ Microsoft Windows 95 ◆ IrDA 1.0 Standard Compliant ◆ Touchpad ◆ Under 7 Pounds* ◆ Extendable 1 Year Warranty†

DELL LATITUDE® LM M166ST
166MHz PENTIUM PROCESSOR W/MMX

Common features listed above plus:
- 12.1" SVGA Active Matrix Display
- 72MB EDO RAM
- *NEW* 4GB Hard Drive
- MS Office 97 Small Business Edition

★ *2nd Lithium Ion Battery, add $199.*
★ *Leather Carrying Case, add $99.*
★ *3Com Lan+ 33.6 Modem PC Card, add $299.*
★ *Dell Latitude LM Port Replicator, add $159.*

$3999‡

Business Lease: $141/Mo.
Order Code #800168

DELL LATITUDE LM M166ST
166MHz PENTIUM PROCESSOR W/MMX

Common features listed above plus:
- 12.1" SVGA Active Matrix Display
- 40MB EDO RAM (72MB Max)
- 2.1GB Hard Drive
- Motorola 33.6 Fax Modem
- MS Office 97 Small Business Edition

★ *Upgrade to 72MB EDO RAM, add $299.*
★ *Upgrade to a NEW 4GB Hard Drive, add $349.*
★ *2nd Lithium Ion Battery, add $199.*
★ *Leather Carrying Case, add $99.*

$3499‡

Business Lease: $123/Mo.
Order Code #800169

DELL LATITUDE LM M166ST
166MHz PENTIUM PROCESSOR W/MMX

Common features listed above plus:
- 12.1" SVGA Active Matrix Display
- 16MB EDO RAM (72MB Max)
- 1.6GB Hard Drive
- MS Office 97 Small Business Edition

★ *Upgrade to 40MB EDO RAM, add $299.*
★ *Upgrade to a 2.1GB Hard Drive, add $149.*
★ *2nd Lithium Ion Battery, add $199.*
★ *NEW 56K Capable** x2 Modem, add $149.*
★ *Dell Latitude LM Port Replicator, add $159.*

$2899‡

Business Lease: $105/Mo.
Order Code #800140

NEW DELL LATITUDE LM M133ST
133MHz PENTIUM PROCESSOR W/MMX

Common features listed above plus:
- 12.1" SVGA Active Matrix Display
- 16MB EDO RAM (72MB Max)
- 1.6GB Hard Drive
- MS Office 97 Small Business Edition

★ *Upgrade to 24MB EDO RAM, add $99.*
★ *Upgrade to a 2.1GB Hard Drive, add $149.*
★ *2nd Lithium Ion Battery, add $199.*
★ *Nylon Carrying Case, add $69.*
★ *Dell Latitude LM Port Replicator, add $159.*
★ *3Com 10Base-T Network Card, add $129.*

$2599‡

Business Lease: $94/Mo.
Order Code #800154

Call for details on Dell's Business Leasing and new Personal Leasing programs.




TO ORDER TOLL-FREE
888-679-3355
TO ORDER ONLINE
www.dell.com/buydell

Mon-Fri 7am-9pm CT
Sat 10am-6pm CT
Sun 12pm-5pm CT
In Canada*, call 800-233-0750
GSA Contract #GS-35F-4076D
Keycode #02260

DELL®

DELL DIMENSION DESKTOPS FOR BUSINESS

Common features: ◆ Mini Tower Model ◆ 512KB L2 Cache ◆ 24X Max[‡] Variable CD-ROM Drive ◆ Microsoft® Office 97 Small Business Edition plus Bookshelf 96 ◆ Microsoft Windows 95 ◆ Microsoft Mouse (MS IntelliMouse on XPS Systems) ◆ 2 Universal Serial Bus (USB) Ports ◆ 3 Year Limited Warranty[†] with 1 Year On-site[Δ] Se
Upgrades: ◆ 3Com® 3C905 Fast EtherLink® XL 10/100 PCI Card, add $99. ◆ 4/8GB EIDE TR4 TBU, add $199. ◆ APC Back-UPS Pro 650, add $299. ◆ 3 yrs. On-site Service,

NEW DELL DIMENSION® XPS D300
300MHz PENTIUM® II PROCESSOR FEATURING MMX™ TECHNOLOGY

Common features listed above plus:
- 64MB SDRAM Memory
- *NEW* 8.4GB Ultra ATA Hard Drive with 512KB Cache (9.5ms)
- 1200HS Monitor (17.9" v.i.s., .26dp)
- *NEW* Matrox Millennium II 8MB WRAM Video Card^
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-90 Speakers

★ *Upgrade to 128MB SDRAM, add $499.*

$3499

Business Lease◊: $123/Mo.
Order Code #500909

NEW DELL DIMENSION XPS D266
266MHz PENTIUM II PROCESSOR FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 32MB SDRAM Memory
- *NEW* 8.4GB Ultra ATA Hard Drive with 512KB Cache (9.5ms)
- *NEW* 1000TX Trinitron® Monitor (15.9" v.i.s., .26dp)
- *NEW* Matrox Millennium II 8MB WRAM Video Card^
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-90 Speakers

★ *Upgrade to 64MB SDRAM, add $199.*

$2899

Business Lease: $105/Mo.
Order Code #500908

NEW DELL DIMENSION XPS D233
233MHz PENTIUM II PROCESSOR FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 32MB SDRAM Memory
- *NEW* 6.4GB Ultra ATA Hard Drive with 512KB Cache (9.5ms)
- 1000LS Monitor (15.9" v.i.s.)
- *NEW* STB Velocity 4MB AGP Video Card*
- AWE64 Value Sound Card
- Altec Lansing ACS-90 Speakers

★ *Upgrade to an 8.4GB Ultra ATA Hard Drive with 512KB Cache (9.5ms), add $99.*

$2499

Business Lease: $90/Mo.
Order Code #500907

DELL DIMENSION XPS M233s
233MHz PENTIUM® PROCESSOR **WITH MMX TECHNOLOGY**

Common features listed above plus:
- 32MB SDRAM Memory
- 4.3GB Hard Drive (9.5ms)
- 1000LS Monitor (15.9" v.i.s.)
- *NEW* Matrox Millennium II 4MB WRAM Video Card
- Sound Blaster 16 WaveSynth Wavetable Sound
- Altec Lansing ACS-90 Speakers

★ *Upgrade to 64MB SDRAM, add $199.*
★ *Upgrade to a 1000TX Trinitron Monitor (15.9" v.i.s., .26dp), add $99.*

$2199

Business Lease: $79/Mo.
Order Code #500906

OUR NEW 300MHz SYSTE
AND PRICE

DELL DIMENSION DESKTOPS FOR HOME

Common features: ◆ Mini Tower Model ◆ 512KB L2 Cache ◆ 24X Max[‡] Variable CD-ROM Drive ◆ *NEW* 56K Capable** U.S. Robotics x2 WinModem ◆ MS Home Essentials plus Best of Entertainment Pack ◆ Microsoft Windows 95 ◆ MS IntelliMouse ◆ 3 Year Limited Warranty with 1 Year On-site Service
Upgrades: ◆ Iomega Zip 100MB IDE Internal Drive w/One Cartridge, add $99. ◆ 3-Pak of Zip 100MB Cartridges, add $39. ◆ HP DeskJet 820Cse Color Printer, add $299.

NEW DELL DIMENSION XPS D300
300MHz PENTIUM II PROCESSOR FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 64MB SDRAM Memory
- *NEW* 8.4GB Ultra ATA Hard Drive with 512KB Cache (9.5ms)
- 1200HS Monitor (17.9" v.i.s., .26dp)
- *NEW* Matrox Millennium II 8MB WRAM Video Card^
- AWE64 Value Sound Card
- Altec Lansing ACS-490 Full Dolby Surround Sound Speakers with Subwoofer
- Iomega Zip 100MB Internal Drive with One Cartridge

$3799

***NEW* Personal Lease: $169/Mo.°ø**
Order Code #500904

NEW DELL DIMENSION XPS D266
266MHz PENTIUM II PROCESSOR FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 32MB SDRAM Memory
- *NEW* 6.4GB Ultra ATA Hard Drive with 512KB Cache (9.5ms)
- *NEW* 1000TX Trinitron Monitor (15.9" v.i.s., .26dp)
- *NEW* Matrox Millennium II 8MB WRAM Video Card^
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-290 Speakers with Subwoofer
- Iomega Zip 100MB Internal Drive with One Cartridge

$2999

***NEW* Personal Lease: $134/Mo.°Σ**
Order Code #500903

NEW DELL DIMENSION XPS D233
233MHz PENTIUM II PROCESSOR FEATURING MMX TECHNOLOGY

Common features listed above plus:
- 32MB SDRAM Memory
- 4.3GB Ultra ATA Hard Drive (9.5ms)
- 1000LS Monitor (15.9" v.i.s.)
- *NEW* STB Velocity 4MB AGP Video Card*
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-90 Speakers

★ *Upgrade to 64MB SDRAM, add $199.*
★ *Upgrade to Altec Lansing ACS-290 Speakers with Subwoofer, add $75.*
★ *Upgrade to 1000TX Trinitron Monitor (15.9" v.i.s., .26dp), add $99.*

$2399

***NEW* Personal Lease: $107/Mo.°∞**
Order Code #500902

DELL DIMENSION XPS M200s
200MHz PENTIUM PROCESSOR **WITH MMX TECHNOLOGY**

Common features listed above plus:
- 32MB SDRAM Memory
- 4.3GB Hard Drive (9.5ms)
- 1000LS Monitor (15.9" v.i.s.)
- *NEW* STB Nitro 4MB EDO PCI Video Card
- Sound Blaster 16 WaveSynth Wavetable Sound
- Altec Lansing ACS-90 Speakers

★ *Upgrade to a 64MB SDRAM, add $199.*
★ *Upgrade to 6.4GB Ultra ATA Hard Drive with 512KB Cache (9.5ms), add $79.*

$1999

***NEW* Personal Lease: $89/Mo.°π**
Order Code #500901

***Product, as configured, will ship by October 20. Please call for updated shipment information.**

MMX™ intel inside pentium® II PROCESSOR

‡Pricing is not discountable. †For a complete copy of our Guarantees or Limited Warranties, please write Dell USA LP Attn: Warranty, One Dell Way, Round Rock, TX 78682. ◊Leasing arranged by third-party leasing companies to qualified customers. *System weight with floppy drive or CD-ROM in options bay. ΔOn-site service provided by an independent third-party provider. May not be available in certain remote areas. ‰ 20X Max./11X Min. Ω12X Max./8X Min. ‡24 Max./12X Min. **x2 products are capable of 56Kbps downloads. Due to FCC rules that restrict power output, however, current download speeds are limited to 53Kbps. Upload speeds are limited to 33.6 Kbps. Actual speeds may vary depending on line conditions. ††Advertised configuration varies from tested configuration. ^4MB Baseboard with a 4MB Upgrade Module. ★Prices and specifications valid in the U.S. only and subject to change without notice. Intel, the Intel Inside logo, LANDesk and Pentium are registered trademarks and MMX and EtherExpress are trademarks of Intel Corporation. MS, Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation. 3Com and EtherLink are registered trademarks of 3Com Corporation. Trinitron is a registered trademark of Sony Corporation. DirectLine is a service mark of Dell Computer Corporation. ©1997 Dell Computer Corporation. All rights reserved.

°Amount of monthly lease payment, based on 24-month lease from Dell Financial Services L.P., an independent entity; amount due prior to delivery: ø$338; Σ$268; ∞$214; π$178 (amounts exclude taxes which may vary; for example, Hartford City, IN fees ø$8.45); no security deposit required, subject to credit approval and availability. Lease terms subject to change.



HOW MANY COMPANIES WILL LET YOU RETURN YOUR COMPUTER WHEN IT BECOMES OBSOLETE?



INTRODUCING DELL'S PERSONAL LEASE WHICH PROTECTS YOU AGAINST OBSOLESCENCE. CALL NOW FOR MORE DETAILS.

***NEW* DELL DIMENSION XPS D266**
266MHz PENTIUM II PROCESSOR FEATURING MMX™ TECHNOLOGY

- 32MB SDRAM Memory
- 512KB Integrated L2 Cache
- *NEW* 6.4GB Ultra ATA Hard Drive with 512KB Cache (9.5ms)
- 1000TX Trinitron® Monitor (15.9" v.i.s., .26dp.)
- *NEW* STB Velocity 4MB AGP Video Card*
- 24X Max§ Variable CD-ROM Drive
- Integrated Yamaha Wavetable Sound
- Altec Lansing ACS-90 Speakers
- 56K Capable** U.S. Robotics x2 WinModem
- Microsoft® Office 97 Small Business Edition plus Encarta 97
- MS Windows® 95/MS IntelliMouse
- 3 Year Limited Warranty† with 1 Year On-site^ Service

Personal Lease

$119/Mo.◊

or buy today for $2679

Order Code #500910

A little overwhelmed by the rate of technology change? Suffering from the "fear of computer commitment?" Well, you can breathe easier now. Because in addition to our business lease program, Dell is now offering computer leasing directly to consumers on all our Dell Dimension and Latitude LM systems. With an over-the-phone approval process that typically takes just minutes and low monthly payments, you can get the latest technology on your desk in a snap.

But here's a real advantage: At the end of the 24-month lease period, you can trade your system in and lease a new one!† This practically guarantees you'll never be stuck with obsolete technology again. And in the unlikely event you need service on your Dell Dimension system, it's covered by our service program for the entire lease term. Plus, as added flexibility, you have the option to buy your leased system outright at the end of the lease term, or even extend the plan for up to six months.† So call us now for more details.

◊Amount of monthly lease payment, based on 24-month lease from Dell Financial Services L.P., an independent entity; amount due prior to delivery: $238 (amounts exclude taxes which may vary; for example, Hartford City, IN fees $5.95); no security deposit required; subject to credit approval and availability. Lease terms subject to change. †Some conditions apply.

***Product, as configured, will ship by October 20. Please call for updated shipment information.**

MMX™ intel inside pentium® II PROCESSOR

DELL®

TO ORDER TOLL-FREE

888-679-3355

TO ORDER ONLINE

www.dell.com/buydell

Mon-Fri 7am-9pm CT • Sat 10am-6pm CT
Sun 12pm-5pm CT In Canada, call 800-233-0750
GSA Contract #GS-35F-4076D

Keycode #02258